Mo	منافع استرشاوية الساوس ابترائي الترم الأول (١٠) Models Exam 6th prim-First term 2020								
	Governorate Grade: 6 th primary Educational Zone Subject :Math Midyear Exam 20 \ 20 Model exam (1)								
	Choose the	correct answer	from those be	tween brackets:					
(1)		•	•	d nod equal in ombus (D) square					
(2)		•	quantitative da oirth (C) age	· ·					
(3)	adjacent s	sides are equal	ne right angle of in length, then e (C) Triangle	it's called					
(4)	_		a set of number the range is (C) 28	ers is 57 and the(D) 82					
	(A) 00	(6) 00	(0) 20	(0) 02					
(5)	•	hmed, then the	ohamed equal t e ratio betweer	hree fourths n Mohamed and					
	$(A) \ \frac{1}{2}$	(B) 2:1	(C) $\frac{3}{4}$	(D) 4:3					
(6)	300 mm ³ =	cm ³							
	(A) 0.3	(B) 0.03	(<i>C</i>) 0.003	(D) 0.0003					

منافع استرشاوية الساوس ابترائي الترم الأول (٢) Models Exam 6th prim-First term 2020

(7) 4 % × 3 % =

(A) 12 (B) 12% (C) 0.012% (D) 0.12%

(8) 40% of amount = \times % from its half, then \times =

(A) 20

(B) 80

(C) 10

(D) 15

(9) The perimeter of two adjacent faces of cube is 42cm, then the volume =

(A) 216 cm^3 (B) 343 cm^3 (C) 27 cm^3 (D) 60 cm^3

(10) The range for 7, 3, 6, 19, 15 is

(A)9

(B) 10

(C) 12

(D) 16

(11) $5600 \text{ cm}^3 = \dots L$

(A) 56

(B) 0.05

(C) 5.6

(D) 0.56

(12) All of the following are descriptive data except

(A) color (B) place of birth (C) age (D) blood

(13) If 4, \times , 12, 18 are proportional, then \times =

(A) 3

(B) 4

(C) 6

(D) 12

[B] Complete:

(14) If $\frac{2}{3} = \frac{10}{x}$ then $x + 5 = \dots$

منافع استرشاویة الساوس ابترائی الترم الأول (۲۳) Models Exam 6th prim-First term 2020

- (15) The ratio between the perimeter of a square and it's side length =:
- (16) Sum of measures of any two consecutive angles in parallelogram
- (17) 100% of a mount =
- (19) = greatest value smallest value.
- (20) The ratio between 18 hours and one day (in the simplest form) is
- (21) $\frac{2X}{3} = \frac{8}{5}$, then $x 1 = \dots$
- (22) $A:b=33\frac{1}{3}\%$, then b:a=.....%

[c] Solve the following problems

(23) a	n insect has been magnified for ten times the real
le	ngth, if the length in picture is 1.4 cm, find the real
le	ngth in mm.
	y

Models Exam 6th pri	im-First	term 2	020(٤)	النترم اللأول	س (بترائی	رشاوية لالساو	ماؤج اسة
(24) ABCD is a parallelogram in which, m (\angle C) = 60°, m (\angle A) = 2x°, m (\angle B) = 3 y°, find the value of x and y?							
(25) A container as a cuboid shaped the dimensions for its base 30 cm and 40 cm, its height 35 cm, poured in it water up to $\frac{5}{7}$ of it then put in it a small cubes the edges length 5cm up to fill the container, what's the number of small cubes?							
(26) The table sh for a hospita		ie mon	ey whi	ch the	stude	ents do	nated
Amount	10 -	20 -	30 -	40 -	50-	Total	
Number of students	5	12	15	13	6	36	
Draw the frequency curve?							

...... Governorate

Educational Zone

Midyear Exam 20 \ 20

Grade: 6th primary

Subject : Math

Model exam (2)

[A] Choose the correct answer from those between brackets:

(1) If A:B=5:6 and B:C=8:9, then A:C=.....

(A) 20:24 (B) 20:27 (C) 48:27 (D) 5:9

(2) If $\frac{Y-1}{2} = \frac{8}{Y-1}$, then $y = \dots$

(A) 3 (B) 16

(c) 4

(1) 5

(3) If $\frac{2}{3}$ % of x = 2, then x =

(A) 30

(B) 300 (c) 3

(D) <u>1</u>

(4) If 100 gram from food stuff gives 300 calories. How many calories will be given from 30 gram of this food.....

(A) 90

(B) 100

(c) 900 (d) 9000

(5) $\frac{2}{3}: 3\frac{1}{3} = \dots$ (A) 1: 2 (B) 2: 5 (C) 1: 10 (D) 1: 5

(6) If the number of pages of a book is 34 pages, how many times of appearance number 3 = ...

(A) 6

(B) 7

(1) 8

(1) 9

(7) $\frac{5}{9} = \frac{15}{x}$, then $x = \dots$

(A) 3

(B) 5 (C) 15 (D) 27

Models Exam 6th prim-First teri	ر (الترم الأول (٦) 2020 n	ناؤم استرشاوية الساوس ابترائى
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(8) If 75% from the length of cloth = 6 meters, then the length of cloth =

(A) 4

(B) 10

(1) 8

(D) 12

(9) The ratio between the two numbers $3\frac{1}{5}$, 9.6 = 1...

 $(\Lambda) \frac{1}{6}$

 $(B) \frac{3}{2}$

(c) $\frac{1}{3}$

(10) A box in cube shaped made from the wood the outer volume is 1000 cm³ and its capacity 729 cm³, then the volume of wood =

(A) 271cm^3 (B) 271cm^2 (C) 1729cm^3 (D) 1729cm^2

(11) 39% + $\frac{1}{2}$ + 0.1 = %

(A) 99

(B) 90

(c) 70

(1) 49

(12) A merchant sold good with profit 12%, then the percentage for selling price to cost price =%

(A) 88

(B) 112

(c) 48

(D) 12

(13) The length of an insect in a picture 4cm, and the real length 2mm, then the scale is

(A) 1: 20

(B) 1:18 (C) 20:1 (D) 80:1

[B] Complete:

(14) 12 % Of 89 kg = kg

Mod	ا els Exam 6th prim-First term 2020 (الأول (الأول els Exam 6th prim-First term 2020 (الماوس البترائي الترم الأول ال
(15)	The ratio between 18 hours and one day (in the simplest

- (16) A rectangle is a parallelogram which
- (17) 8 hours : $3\frac{1}{3}$ days = :
- (18) If a: b = 2:3, b: c = 6:7 then a: c =
- (19) If X, 18, 6, 9 are proportional quantities then $X = \dots$
- (20) Range for 29, 25, 49, 35 is

[c] Solve the following problems

(23) Amount of money divided into two persons with ratio
3:5, if the share of second more than the first by 30
pounds, find the share of the first?

Mo	odels Exam	6th prim	-First te	erm 2020	, (لأول (^)	البترائي الترم	منافع استرشاوية الساوس		
(24	(24) Ahmed draw a picture for his brother with scale 1:40 , if the real length is 160cm, find the drawing length?								
(25) In the opposite figure: ABCD is a rhombus which m (\angle BCD) = 80° ABCD and value of x and y? $ABCD = 80^{\circ}$ Output ABCD = 80° Output D ABCD = 80° Output D ABCD = 80° Output D Ou									
(26) The table shows degrees of 100 students in mathematics exam:									
	Degrees	20 -	30 -	40 -	50 -	Total			
	Number	15	30	40	15	100			
]	Draw the frequency curve								
••••									

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نماؤج (سترشاوية الساوس ابترائي الترم الأول (٩) Models Exam 6th prim-First term 2020

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Educational Zone

Midyear Exam 20 \ 20

Grade: 6th primary

Subject : Math

Model exam (3)

[A] Choose the correct answer from those between brackets:

(1) The range of the set of the values 3, 9, 1, 6 is

- (A) 2
- (B) 3
- (0) 6
- (1)8

(2) 10% of a number = % of the half of this number

- (A) 5
- (B) 10
- (c) 15
- (1) 20

(3) $\frac{2}{3} \times 0.4 \times 37.5 \% \times 10 = \dots$ %

- (A) 1
- (B) 100
- **(C)** 2
- (1) $\frac{100}{100}$

(4) The perimeter of rectangle is 32cm, its width 6cm, then length = width

- $(A) \frac{2}{5}$
- $(B) \frac{5}{2}$
- (c) $\frac{3}{5}$
- $(1) \frac{5}{3}$

(5) If: $11 \frac{1}{9}$ % of x = 9, then $x = \dots$

- (A) 90
- $(B) \frac{1}{9}$
- (0)0,9
- **(1)** 81

(6) 25 % of 80 = 80 % of

- (A) 25
- **(B)** 2040 **(C)** 80
- **(1)** 109

Mod	dels Exam 6th pri	m-First term 202	يئى النترم الأول (١٠) ٥	بع استرشاوية الساوس ابترا	ىنماۋ
(7)	The range for	7 , 9 , 3 , 11 is	3		
	(A) 7	(B) 8	(C) 6	(D) 9	
(8)	2 % = 1 5 % =	(5) 405	(4) 050		

(8)
$$\frac{2}{5}\% = \frac{1}{\dots}$$
(A) 40 (B) 125 (C) 250 (D) 100

- (9) If x, 9, 4, x are proportional then x = 1 where x > zero
 - (D) 9 (A) 6 (B) 63 (C) 4
- (10) ABCD is a parallelogram, $m(\angle A) = 2 \times , m(\angle B) = \times +30$

Then x = (A) 40 (B) 80 (C) 50 (D) 100

(11)
$$0.5 \text{ m}^3 = \dots L$$

(A) 5 (B) 50 (C) 500 (D) 5000

- (12) A drawing scale 1:2000 means for each 1cm represent M
 - (B) 2 (C) 20 (D) 200 (A) 0.2
- (13) The range for 3, 9, 1, 6 = (A) 2 (B) 3 (C) 6 (D) 8

[B] Complete:

- (14) $0.5 \text{ m}^3 = \dots$ Liter
- (15) If amount of money divided between two persons as 2:3, then the share of the first = ——— the amount
- (16) 6 $\frac{1}{4}$ % = 1:
- (17) The edge length of a cube 0.1dm, then the volume =
- (18) is compare way between two different quantities.
 - (19) If the volume of a cube 8000 cm³, then the edge length =
- (20) The quadrilateral which each two opposite sides are parallel and equal in length is
- (21) 50 %: $33\frac{1}{3}$ % = in simplest form.
- (22) The diagonals are equal and not perpendicular in

[c] Solve the following problems

(23) three persons set a trade the first paid half of the second, the second paid half of the third, at the end of the year the profit was 5600 pounds, find the share of each them?

Models Exam	6th pr	rim-First ter	m 2020 ('	, (لأول (٢	ابترائي الترم	مافع استرشاوية الساوس
(24) In the a parallelog m (∠ BAC)	gram w	vhich m (∠	B) = 12	О°,	0);	120 B
	•••••			••••••		
with 5	5000 p	bought a counds, the	en sold i	t for 5		and repair it
(26) The t	able s	hows the r	number	of hour	rs for 5	50 students
Hours	2 -	4 - 6 -	8 -	10-	Total	
Number	6	11 15	13		50	
1- Co	mplete	e the table	?			
2- Dr	aw the	e frequenc	y curve:			
		<mark></mark>				

Answer the test mode Mathematics Sixth grade primary first term 2020

Number questions	Type of dijection		Deg	gree of student
13	Choose	13		
9	Complete	9		
4 Solve problems		8		
Total		30		

Subject: Math

Grade: 6th primary

Model Answer (1)

[A] question answer Choose the correct answer

- (1) The two diagonals are perpendicular and nod equal in square (A) parallelogram (B) square (C) Rhombus (D) Rectangle
- (2) All of the following are quantitative data except color (A) color (B) date of birth (C) age (D) length
- (3) If the parallelogram has one right angle and the two adjacent sides are equal in length, then it's called Square
 - (A) Rhombus (B) Square (C) Triangle (D) Rectangle
- **(4)** If the greatest value for a set of numbers is 57 and the smallest one is 29, then the range is 57 - 29 = 28(B)68(C) 28 (A) 86 (D)82
- (5) Three eighths what has Mohamed equal three fourths what has Ahmed, then the ratio between Mohamed and Ahmed is 2:1
 - $(A) \frac{1}{2}$
- (B) 2:1
- (C) $\frac{3}{4}$
- (D) 4:3

- (6) $300 \text{ mm}^3 = 0.3 \text{ cm}^3$
 - (A) 0.3
- (B) 0.03 (C) 0.003
- (D) 0.0003

Answer the test model for the Sixth grade primary First Term 2020 (7)

(7) $4\% \times 3\% = 0.12\%$

(A) 12 (B) 12% (C) 0.012% (D) 0.12%

(8) 40% of amount = x % from its half, then x = 80

(A) 20

(B) 80

(C) 10

(D) 15

(9) The perimeter of two adjacent faces of cube is 42cm, then the volume Character length = 7cm, the volume = 343

(A) 216 cm 3 (B) 343 cm 3 (C) 27 cm 3 (D) 60 cm 3

(10) The range for 7, 3, 6, 19, 15 is 19 - 3 = 16

(A)9

(B) 10

(C) 12

(D) 16

(11) 5600 cm³ = 5.6 L

(A) 56

(B) 0.05

(C) 5.6

(D) 0.56

(12) All of the following are descriptive data except age

(A) color (B) place of birth (C) age (D) blood

(13) If 4, x, 12, 18 are proportional, then $x = \frac{4 \times 18}{12} = 6$

(A) 3

(B) 4

(C) 6

(D) 12

[B] question answer complete:

(14) If $\frac{2}{3} = \frac{10}{x}$ then $x + 5 = \frac{15 + 5 = 20}{x}$

Answer the test model for the Sixth grade primary First Term 2020 (*)

- (15) The ratio between the perimeter of a square and it's side length = 4 : 1
- (16) Sum of measures of any two consecutive angles in parallelogram 180°
- (17) 100% of a mount = 1
- (18) The diagonal of a square divide the vertex into two angles the measure of each them 45°
- (19) The range = greatest value = smallest value.
- (20) The ratio between 18 hours and one day (in the simplest form) is 18:24=3:4
- (21) $\frac{2X}{3} = \frac{8}{5}$, then $x = \frac{3 \times 8}{2 \times 5} = 2.4 \Rightarrow x-1 = 2.4 1 = 1.4$
- (22) $A:b=33\frac{1}{3}\%$, then b:a=300%

[c] question answer problems

(23) an insect has been magnified for ten times the real length, if the length in picture is 1.4 cm, find the real length in mm.

drawing length : real length

1 : 10

1,4 : ??

the real length = $\frac{1.4 \times 10}{1}$ = 14 cm=140 mm

Answer the test model for the Sixth grade primary First Term 2020 (\$)

(24) ABCD is a parallelogram in which, m (\angle C) = 60°

m (
$$\angle A$$
) = $2x^{\circ}$, m ($\angle B$) = $3y^{\circ}$, find the value of x and y?

$$m (\angle C) = m (\angle A) = 2x = 60 \Rightarrow x = 30^{\circ}$$

$$m (\angle B) = 180 - 60 = 120 = 3 y \Rightarrow y = 40^{\circ}$$

(25) A container as a cuboid shaped the dimensions for its base 30 cm and 40 cm, its height 35 cm, poured in it water up to $\frac{5}{7}$ of it then put in it a small cubes the edges length 5cm up to fill the container, what's the number of small cubes?

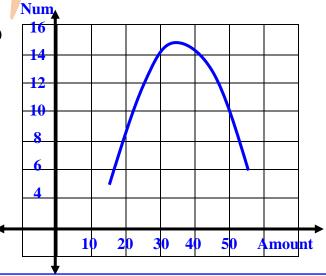
Capacity A container =
$$30 \times 40 \times 35 = 42000 \text{ cm}^3$$

Capacity A water = $42000 \times \frac{5}{7} = 30000 \text{ cm}^3$
size of the cube = $5 \times 5 \times 5 = 125 \text{ cm}^3$
Volume of all cubes= $420000-30000=12000 \text{ cm}^3$
Number of cubes = $12000 \div 125 = 96 \text{ cubes}$

(26) The table shows the money which the students donated for a hospital:

Amount	10 -	20 -	30 -	40 -	50-	Total
Number of students	5	12	15	13	6	36

Draw the frequency curve?



Subject: Math

Grade: 6th primary

Model Answer (2)

IAI question answer Choose the correct

(1) If A:B=5:6 and B:C=8:9, then A:C=20:27

(A) 20:24 (B) 20:27 (C) 48:27 (D) 5:9

(2) If $\frac{Y-1}{2} = \frac{8}{Y-1}$, then $y = \frac{5}{2}$

(A) 3

(B) 16

(c) 4

(1) 5

(3) If $\frac{2}{3}$ % of x = 2, then x = 300

(A) 30

(B) 300

(t) 3

- (1) $\frac{1}{30}$
- (4) If 100 gram from food stuff gives 300 calories. How many calories will be given from 30 gram of this food 90

(A) 90

(B) 100

- (c) 900 (l) 9000
- (5) $\frac{2}{3}$: $3\frac{1}{3} = \frac{2}{3}$: $\frac{10}{3}$ = 2: 10 = 1:5

- (A) 1:2 (B) 2:5 (C) 1:10 (D) 1:5
- (6) If the number of pages of a book is 34 pages, how many times of appearance number 3 = 9

(A) 6

(B) 7

(t) 8

(1) 9

(7) $\frac{5}{9} = \frac{15}{x}$, then $x = \frac{27}{x}$

(A) 3

(B) 5

(c) 15

(1) 27

- (A) 4
- **(B)** 10
- 8 (1)
- **(D)** 12

(9) The ratio between the two numbers $3\frac{1}{5}$, $9.6 = \frac{16}{5} : \frac{96}{10} = \frac{1}{3}$

- $(A) \frac{1}{6}$
- (B) $\underline{3}$
- (c) $\frac{1}{3}$
- $(1) \frac{2}{3}$

(10) A box in cube shaped made from the wood the outer volume is 1000 cm³ and its capacity 729 cm³, then the volume of wood = $1000 - 729 = 271 \text{ cm}^3$

- (A) 271cm³
- (B) 271cm^2 (C) 1729cm^3 (D) 1729cm^2

(11) 39% + $\frac{1}{2}$ + 0.1 = 99 %

- (A) 99
- (B) 90
- (c) 70
- **(1)** 49

(12) A merchant sold good with profit 12%, then the percentage for selling price to cost price = 112 %

- (A) 88
- (B) 112
- (c) 48
- (D) 12

(13) The length of an insect in a picture 4cm, and the real length 2mm, then the scale is 40:2=20:1

- (A) 1:20
- **(B)** 1:18
- (c) 20:1
- (1)80:1

[B] question answer Complete:

- (14) 12 % Of 89 kg = $\frac{10.68}{10.68}$ kg
- (15) The ratio between 18 hours and one day (in the simplest form) is 18:24=3:4
- (16) A rectangle is a parallelogram which <u>Its diameter is</u>
 <u>equal in length</u>
- (17) 8 hours: $3\frac{1}{3}$ days = $8:\frac{10}{3} \times 30 = 8:100 = 2:25$
- (18) If a: b = 2:3, b: c = 6:7 then a: c = 12:21 = 4:7
- (19) If X, 18, 6, 9 are proportional quantities then X = 12
- (20) Range for 29, 25, 49, 35 is 49 25 = 24
- (21) If the radius length exceeds by 5%, then the circumference of the circle exceeds by 5%
- (22) The ratio between the side length of the square and its Perimeter = 1 : 4

[c] question answer problems

(23) Amount of money divided into two persons with ratio 3:5, if the share of second more than the first by 30 pounds, find the share of the first?

First: Second: difference

3 : 5 : 2 ?? 30

the share of the first = $\frac{3 \times 30}{2}$ = 45 pounds

Answer the test model for the Sixth grade primary First Term 2020 (1)

(24) Ahmed draw a picture for his brother with scale 1:40 , if the real length is 160cm, find the drawing length?

drawing length : real length

40

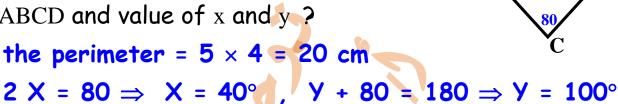
160

the drawing length= $\frac{1 \times 160}{100}$ = 4 cm

(25) In the opposite figure:

ABCD is a rhombus which m ($\angle BCD$) = 80° , AB = 5 cm, **find**. the perimeter

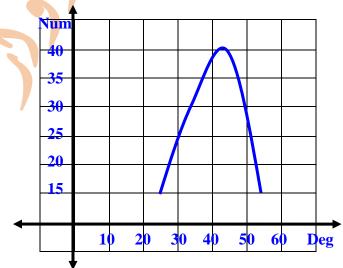
of ABCD and value of x and y?



(26) The table shows degrees of 100 students in mathematics exam:

Degrees	20 -	30 -	40 -	50 -	Total
Number	15	30	40	15	100

Draw the frequency curve



Subject: Math

Grade: 6th primary

Model Answer (3)

[A] question answer Choose the correct

- (1) The range of the set of the values 3, 9, 1, 6 is 8
 - (A) 2
- (B) 3
- (0) 6
- **(1)** 8
- (2) 10% of a number = 20 % of the half of this number
 - (A) 5
- (B) 10
- (c) 15
- **(1)** 20

- (3) $\frac{2}{3} \times 0.4 \times 37.5 \% \times 10 = \frac{100}{3} \%$
 - (A) 1
- **(B)** 100
- (C) 2
- (1) $\frac{1}{100}$
- (4) The perimeter of rectangle is 32cm, its width 6cm, then length = width
 - $(A) \frac{2}{5}$
- **(B)**
- (c) $\frac{3}{5}$
- $(1) \frac{5}{3}$
- (5) If: $11\frac{1}{9}$ % of x = 9, then $x = \frac{100}{9 \times 100} \times = 9$ $\Rightarrow x = 81$
 - (A) 90
- (B) $\frac{1}{9}$
- (0)0,9
- **(1)** 81

- (6) 25 % of 80 = 80 % of 25
 - (A) 25
- (B) 2040 (C) 80 (D) 109
- (7) The range for 7, 9, 3, 11 is 11 3 = 8
 - (A)7
- (B) 8
- (C) 6
- (D) 9

Answer the test model for the Sixth grade primary First Term 2020 (1.1)

(8) $\frac{2}{5}$ % = $\frac{1}{250}$

(A) 40

(B) 125

(C) 250

(D) 100

(9) If x, 9, 4, x are proportional then x = 6 where x > zero

(A) 6

(B) 63

(C) 4 ·

(D) 9

(10) ABCD is a parallelogram, $m(\angle A) = 2 \times , m(\angle B) = \times + 30$

Then $x = 50^{\circ} (A) 40$ (B) 80

(C) 50

(D) 100

(11) $0.5 \text{ m}^3 = 5000 \text{ L}$

(A)5

(B) 50

(C) 500

(D) 5000

(12) A drawing scale 1:2000 means for each 1cm represent

2000 cm = 20 M

(A) 0.2

(B) 2

(C) 20

(D) 200

(13) The range for 3, 9, 1, 6 = 9 - 1 = 8

(A) 2

(B) 3

(C) 6

8 (d)

[B] question answer Complete:

(14) $0.5 \text{ m}^3 = 500 \text{ Liter}$

(15) If amount of money divided between two persons as

2:3, then the share of the first = $\frac{2}{5}$ the amount

Answer the test model for the Sixth grade primary First Term 2020 (11)

(16)
$$6\frac{1}{4}\% = 1 : 16$$

- (17) The edge length of a cube 0.1dm, then the volume $\frac{=1 \text{ cm}^3}{}$
- (18) The ratio is compare way between two different quantities.
- (19) If the volume of a cube 8000 cm³, then the edge length = 20 cm
- (20) The quadrilateral which each two opposite sides are parallel and equal in length is parallelogram
- (21) 50 %: $33\frac{1}{3}$ % = 3:2 in simplest form.
- (22) The diagonals are equal and not perpendicular in rectangle

[c] question answer problems

(23) three persons set a trade the first paid half of the second, the second paid half of the third, at the end of the year the profit was 5600 pounds, find the share of each them?

First : Second : Third : Total

1 : 2 : 4 : 7

? : | ? | : 7 : 5600

the share of the first = $\frac{1 \times 5600}{7}$ = 800 pounds

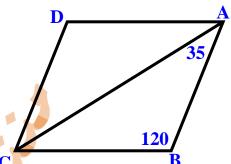
Second = $\frac{2 \times 5600}{7}$ = 1600 p, Third = $\frac{4 \times 5600}{7}$ = 3200 p

Answer the test model for the Sixth grade primary First Term 2020 (15)

(24) In the opposite figure: ABCD is a parallelogram which m (\angle B) = 120°, m (\angle BAC)=35°, find m(\angle D) and m(\angle CAD)?

$$m(\angle D) = m (\angle B) = 120^{\circ}$$

 $m (\angle A) = 180 - 120^{\circ} = 60^{\circ}$
 $m(\angle CAD) = 60 - 35^{\circ} = 25^{\circ}$



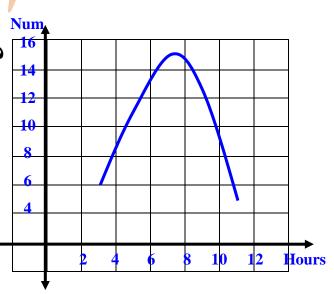
(25) a merchant bought a car for 45000pounds and repair it with 5000 pounds, then sold it for 55000 pounds, find the percentage for the profit?

Costs =
$$45000 + 5000 = 50000$$
 pounds
profit = $55000 - 50000 = 5000$ pounds
by profit = $\frac{5000 \times 100}{50000} = 10\%$

(26) The table shows the number of hours for 50 students daily

Hours	2 -	4 -	6 -	8 -	10-	Total
Number	6	11	15	13	5	50

- 1- Complete the table?
- 2- Draw the frequency curve?





Model Exams Model (1)

(1)Complete the following:

- a) If a:b=3:4,b:c=5:6, then a:c=......
- b) The rhombus is a parallelogram in which......
- c) If the volume of a cuboid equals $400cm^3$, and its base length = 8cm , and width = 5cm , then its height equalscm
- d) If $\frac{5}{7}x = 5$, $x = \dots$
- e) If the purchase price of a refrigerator is 1200 pounds and its selling price equals 1440 pounds ,then the percentage of the profit equal......

(2)Choose the correct answer:

- a) 500 gm : 1.5 kg =
 - 1. 1:2
 - 2. 1:3
 - 3. 1:5
 - 4. 1:10
- b) The numbers 4, x, 12, 18 were in proportion, then the value of x =
 - 1. 2
 - 2. 3
 - 3. 6
 - 4. 54
- c) $\frac{7}{4}$ =%
 - 1. 175
 - 2. 150
 - 3. 125
 - 4. 225
- d) 4.7 liter = ml.
 - 1. 47
 - 2. 470
 - 3. 4700
 - 4. 47000
 - 5.



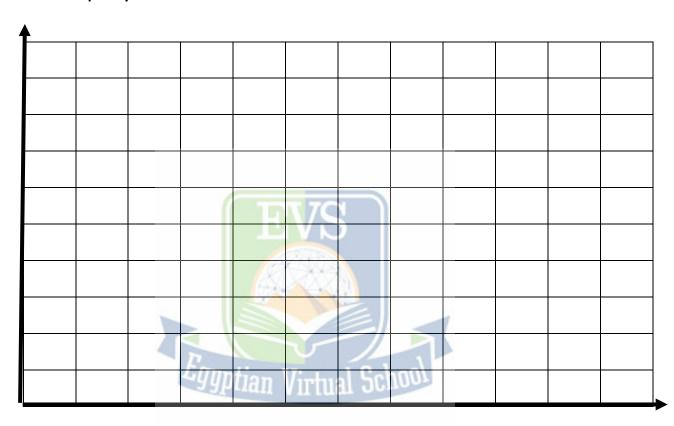
(3) Knowing that: a) x : y = 2 : 5 and y : z = 3 : 4, find x : z
b) 96% of the students of a school have succeeded in the mid-year exam. Knowing that 15 students have failed, find the total number of students in the school.
(4) The perimeter of a rectangle is 120 cm, the ratio between its length and its width is 3:2 find the area of this rectangle.
(5) In the parallelogram XYLZ: XZ = 5 cm, LZ= 6 cm and m(<y)= (<l)="" (<x)="" 60°="" a)="" b)="" c)="" find:="" m="" of="" parallelogram="" perimeter="" th="" the="" xylz.<=""></y)=>



(6) The following table shows the frequency distribution of the weights of 100 persons.

Sets	60 -	63 -	66 -	69 -	72 -
Frequency	5	18	42	27	8

Draw the frequency curve for this data.





Model (2)

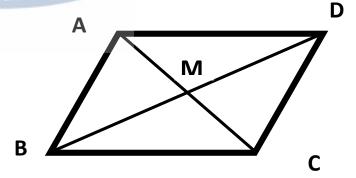
(1)Complete:

- a) 25% of L.E12 =..... piasters.
- b) 9cm. on a map represents 180 km in reality, the scale of that map is......
- c) The fourth proportional of 1, 2 and 3 is
- d) (Draw the next)
- (2) We share an amount of money between three persons so that the ratio between the share of the first and the share of the second 1: 2 and the ratio between the share of the second and the share of the third is 5: 6, knowing that the share of the second person exceeds the share of the first by 1500LE, find the share of each of the three persons.

(3)

a) ABCD is a parallelogram in which AD= 6 cm, AB= 5cm. and

AM= 4 cm Calculate the perimeter of the ABC.





B) A group of contributors paid sums of money in pounds as shown in the following table:

The sum	50 -	60 -	70 -	80 -	90 -	100 -	110 -
Number of contributors	5	7	10	12	10	7	5

1) What is the number of contributors paid L.E 80 and more

2) Represent the previous data by the frequency curve?





Model (3)

(1) The following table represents the percentage number of students in the primary classes of a school:

Class	Primary1	Primary2	Primary3	Primary4	Primary5	Primary 6
percentage	15%	16%	21%	12%	19%	17%

Knowing that there are 32 students in primary 2, calculate the number of students in each class.

(2)Complete:

- a) 50% of 1 =
- b) 12% of= 12
- c) The ratio between the perimeter of the square and its side length is -----:
- d) The third proportional of 5, 2, ----- and 4 is
- e) 0.5 kilograms: 5 gram =:
- f) If 60% of 20added to 21% of 100 the result will be

(3)Choose:

- a) The opposite angles are not equal in measure in
- 1. Parallelogram
- 2. Trapezium
- 3. Square
- 4. Rectangle
- 1. 108
- 2.800
- 3. 12.5
- 4.92



c) The capacity of a vessel of inner dimensions 20 cm , 20 cm and 30 cm is
1. 0.12
2. 1.2
3. 12
4. 120
d) Two diagonals are perpendicular in the
1. Rectangle
2. Rhombus
3. Parallelogram
4. Trapezium
(4) A merchant bought goods for 960 L.E and spends 20 L.E for its transportation, then he sells i
for 1176 L.E. Find the percentage of his profit?
(5) ABCD is a parallelogram in which:
AB= 6cm, BC=7cm, BM=4cm and m (<dcb) 71°<="" =="" td=""></dcb)>
Find:
1) M(<adc) 2)m(<dab)="" <math="">\Delta3) Perimeter of BCD</adc)>
2) VI(CADC) 2) VI(CDAB) 23) Perimeter of BCD
D_{A}
\mathcal{C}
- В



Model (4)

(1) Write (True) or (false)? a) A cuboid has 8 faces (....) b) If the volume of a cube is $125cm^3$, then its edge length is 5cm (.....) c) The cube is a cuboid in which all the dimensions are equal (.....) d) A cuboid with a square base must be a cube. (2) The dimensions of a wooden solid having the shape of a cuboid are 4, 4 and 20 cm a) Calculate the volume of this solid. b) If we cut the solid into identical cubes of maximum size. Calculate the volume of each of these cubes. (3) Choose the correct answer: a) Cubic meter is a unit of measuring 1. Perimeter 2. Weight 3. Area

4. Volume



b) 6.3 : 18.9 = (In the simplest form)
1. 3:4
2. 4:3
3. 1:3
4. 1:2
c) If $\frac{a}{b} = \frac{c}{d}$ then which of the following statements is true?
1. axc = bxd
2. axd = bxc
3. axb = cxd)
d) $\bigcirc \triangle \bigcirc \bigcirc \triangle$
1. $\triangle \bigcirc \triangle$
$_{2}$. $\bigcirc\bigcirc\bigcirc\triangle$
3. \(\lambda\) \(\lambda\)
(4) A factory produces 5000 juice cans in 8 hours. Find the rate of production per hour?
Equation Virtual School
Japanan VII IIIai John



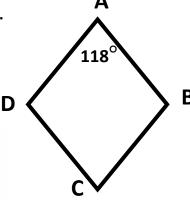
Mid-Year Exam 2015 /2016

Question (1) Complete:

- 1) 0.4: 0.8 = : In the simplest form.
- 2) The Range of the set of these value 20, 95, 70, 45 equals
- 3) If the quantities X, 6, 20 and 30 are in proportion, then X =
- 4) In the opposite figure:

ABCD is a rhombus in which m (< A) = 118°

Then m (< B) =



Question (2) choose the correct answer:

- 1) The cube has edges.
- 1. 12
- 2. 8
- 3. 6
- 4. 4
- 2) The given data are quantities except the
- 1. Weight
- 2. Length
- 3. Nationality
- 4. Age



3) 1.2 liters + 800 cm^3 = liters	10000
1. 2	
2. 9.2	
3. 200	
4. 2000	
4) If 100 grams of chocolate give 300 calories .what is the number	
Of calories which are found in 30grams of the same chocolate?	
1. 90	
2. 100	
3. 900	
4. 9000	
Question (3):	
a) If the length of sues canal in a map of drawing scale 1: 1100000 is 15 cm.	
then find its real length in kilometers.	
	
b) Three persons involved in a business, the first paid LE 60000,	
the second paid LE 80000 and the third paid LE 90000. at the end	
of the year the profit was LE 20700 .	
Find the share of each person in profit.	



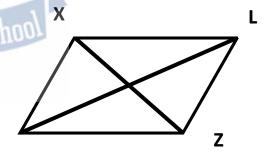
Question (4):

A man bought a flat for LE 100000, after three years he sold it for LE 130000. Find the percentage of his profit.

b) In the opposite figure XYZL us a parallelogram in which

YZ = 5 cm. and ZM = 3.5 cm. find:

(1) m (< XLZ) (2) perimeter of the triangle XLZ



Question (5):

a) A container contains 12 liters of honey. It is wanted to pour it in small bottles the capacity of each of them Is $400cm.^3$. Calculate the number of bottles which are needed for that.



b) The following table shows the marks of 100 pupils in

Mathematics in a month.

The marks	20-	30-	40-	50-60	Total
Number of pupils	10	30	40	20	100

Draw the frequency polygon for this distribution.





Mid-Year Exam 2016 /2017

(Calculator is allowed)

Answer the following questions:

Question (1): Complete the following:

- 1) If $\frac{X}{8} = \frac{3}{4}$, then X =
- 2) $\frac{2}{5}$ =%
- 3) The quadrilaterals in which its diagonals are equal in length and bisect each other are called
- 4) The difference between the greatest value and the smallest value in set of individuals is called

Question (2): Choose the correct answer from those given:

- 1. 3
- 2.4
- 3. 12
- 4. 18
- **2)** The following data are descriptive except
- 1. Thecolour
- 2. Place of birth
- 3. Age
- 4. Blood species

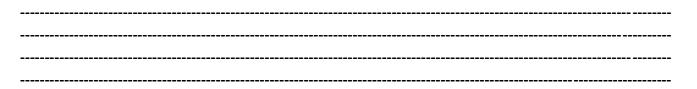


3) 1500 cm^3 = Liter
1. 0.15
2. 1.5
3. 15
4 150
4) If an agriculture machine ploughs 14 feddans in 3.5 hours , then the rate of performance of this machin is feddan / hour 1. $\frac{1}{4}$
2. $2\frac{1}{2}$
3. 4 4. $10\frac{1}{2}$
Question (3):
a) If the distance between two cities on a map of drawing scale
1: 500 000 equals 3 cm, find the real distance between the two cities.
b) The sum of the six faces area of a cube $54cm^2$, Find:
1) Its edge length 2) Its volume



Question (4):

a) The number of pupils of a primary school in the first, second and the third grades is 240 pupils, if the ratio among the three grades is 5: 4: 3 calculate the number of pupils in each grade of them



b) Heba bought an electric sweeping machine for L.E. 425 with discount 15% Calculate the original price of the sweeping machine before discount.

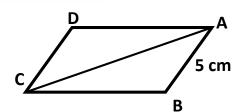


Question (5):

a) In the opposite figure:

ABCD is a parallelogram in which m (<B) = 110° , m (<DAC) = 30°

And AB = 5 cm. Find: 1) Length of \overline{CD} 2) m (<BAC)





b) The following table shows the marks of 100 pupils in math.

Marks	10-	20-	30-	40-	50-	Sum
Number of pupils	15	25	30	20	10	100

- 1) Draw the frequency curve for this distribution.
- 2) What is the number of pupils who get 30 marks or more?





Mid-Year Exam 2017 /2018

1) Complete the following:

- 2) 2.5 dm^3 = litres.
- 3) If $\frac{5}{9} = \frac{15}{x}$, then x =
- 4) The range of a set of the values 3, 2, 15, 11 is
- 5) The smallest prime number is
- 6) The sum of measures of the interior angles of the triangle =

2) Choose the correct answer:

- 1) All the following data are quantitative except
- 1. the age
- 2. the weight
- 3. the birth place
- 4. the tallness)
- 2. parallelogram
- 3. rhombus
- 4. square
- **3)** An agricultural machine ploughs 14 feddans in 3.5 hours, then the rate of the machine in feddans per hour is.........
- 1. 2
- 2. 4



- 3. 49
- 4. 7
- **4)** $\frac{18}{x}$ = 20 %, then x =
- 1.90
- 2.100
- 3.120
- 4. 190
- **5)** The ratio between the side length of an equilateral triangle and its perimeter equals:
- 1. 3:1
- 2. 1:3
- 3. 1:1
- 4. 1:4)
- **6)** $\frac{3}{5}$ $\frac{3}{7}$
 - 1. <
 - 2. >
- 3. =



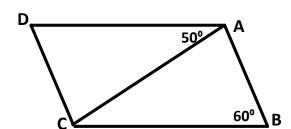
3) a) A map was drawn with a drawing scale $1:6000\ 000$, and the real distance between two cities was 180 kilometres. Find the distance between them on the map?

b) The perimeter of the base of a cube is 36cm, Calculate its value?

	Countian Virtual School
his loss?	ds by L.E. 5000, then he sold it by L.E. 4000, calculate the percentage o
b) The number of the nu	FIVS.
•	pils in a primary school is 960 pupils, if the ratio among the number of grade, and the third grade is 5:4:3, Calculate the number of pupils
in each grade ?	
	Yirtual School
5) a) In the opposite fig	ure ·

ABCD is a parallelogram in which m (< B) = 60° , m (< DAC) = 50° Find:

1) m (< D) 2) m (< BAC)



EVS



- **b)** The following table shows the donation of a group of students on orphan's day in pounds .
- 1) Represent these data by the frequency curve.
- 2) What is the number of students who donated less than L.E. 7?

Donation amount	3-	5-	7-	9-	11-	Sum
No. of students	7	10	15	10	8	50





Mid-year Exam 2018- 2019

Question (1) choose the correct answer:



- 1. 35
- 2. 40
- 3. 45
- 4. 30
- 2) If the numbers 2,7,x and 21 are proportional, then x =..........
- 1. 21
- 2. 12
- 3. 6
- 4. 7
- 3) In an equilateral triangle, the ratio between its perimeter and its side length equals =........
- 1. 1:3
- 2. 3:1
- 3. 3:2
- 4. 2:3
- 4) The diagonals are perpendicular in
- 1. rectangle
- 2. parallelogram
- 3. square



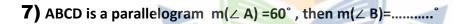
4. trapezium

5) If A:B=2:5 and B:C=5:9 then A:C=.....

- 1. 5:2
- 2. 2:9
- 3. 5:7
- 4. 2:11

6) The volume of a cuboid its height = 3cm .and the surface area of its base =12 cm^2 .is cm^3

- 1. 36
- 2. 4
- 3. 15
- 4. 9



- 1.30
- 2. 60
- 3. 120
- 4. 90

8) A car consumes 12 liters of fuel to cover a distance of 96 km . How many liter are needed to cover a distance 144 km ?

- 1. 10
- 2. 16
- 3. 18
- 4. 20



$oldsymbol{9}ig)$ If the marks of 3 students in one exam are ($oldsymbol{36}$,	, 27 , 57)	, then the range	or these marks
--	-------------	------------------	----------------

=.....

- 1. 30
- 2. 20
- 3. 40
- 4. 50

10) The real length is 6m. and the drawing length is 6 cm, then the drawing scale is

- 1. 1:10
- 2. 1:1000
- 3. 1:100
- 4. 1:10000

11) All the following data are descriptive data except

- 1. favorite color
- 2. age
- 3. birth place
- 4. blood species

12) $10 dm^3 = \dots cm^3$

- 1. 10
- 2. 100
- 3. 1000
- 4. 10000

Question (2) complete:

13) The number of axis of symmetry of a square is

- 14) A square is a rhombus with
- **15)** 30% of 600 pounds =.....



18)	The ratio between Sama's age to her father's age is 2:18, if Sama's age is 6 years
old	then her father's age is
19)	The sum of edges of the cube is 24 cm , then its volume $\ = \dots $
20)	The circumference of the circle: the length of its diameter =:
Questi	on (3)
21) Three	e persons started a business. The first paid $\frac{5}{6}$ of what the third paid and the second
paid $\frac{7}{9}$ of v	what the third paid, at the end of the year, the profit of the first was L.E 3000, Find
	of the second and the third.
•••••	
-	The ratio between the measures of the angles of a triangle is 1:2:3, find the measure of angle of the triangle.
••••••	
••••••	
23) A	metallic cube of edge length 18 cm .it is melted and converted into alloys in the form of
cuboid	its dimensions 6 cm , 9 cm , 12 cm . calculate the number of alloys .
••••••	
••••••	



Question (4)

24) Rasha bought a dress for 660 pounds with discount 20% calculate the price of the dress
efore discount .

25) The following table shows the marks of 20 students in one of math exam :

Marks	10 -	20 -	30 -	40 -	Total
Number of	4	6	8	2	20
students		100 /6			

Draw the frequency curve for this data .



Mid-year Exam 2019/2020

Question 1:choose the correct answer



- 1. 12
- 2. 10
- 3. 8
- 4. 5)
- **2)** 1¾=....%
- 1. 25
- 2.50
- 3.75
- 4. 175



- 3) A car consumes 4 liters of fuel to cover distance 100 km ,then the rate of consumption isliter/hour
- 1. 25
- 2. 0.4
- 3. 0.04
- 4. 400
- 4) The volume of a cuboid its height=4 cm .and the surface area of its base=12 cm²



- **5)** ABCD is a parallelogram, then m (<A) + m (<B)=.....
- 1.90
- 2.180
- 3.360
- 4. 108
- **6)** The ratio between the side length of the square and its perimeter= :
- 1. 4:1
- 2. 1:4
- 3. 8:4
- 4. 1:1
- **7)** 1 70 % =.....
- 1. 0.3
- 2. 70
- 3. 0.7
- 4. 1



- **8)** The range of the numbers 72,65,20,45 and 75 is
- 1. 40
- 2. 55
- 3. 50
- 4. 52
- 9) The ratio between 500 gm and ¾ kg is:
- 1. 4:3



- 2. 3:4
- 3. 2:3
- 4. 1:2

10) 20 % of 1000 =

- 1. 500
- 2. 2000
- 3. 200
- 4. 400

Draft:





Question 2 : Complete:

- 1)8400 cm³ =...... Liters .
- 2) The volume of the cube which the sum of all its edge lengths 36 cm =.....
- 3) If A : B = 1:2 and B: C = 3:5, then A: C =:
- 4)The volume of cuboid with square base with side length 5 cm and height 8 cm is cm³
- 5)The rectangle is parallelogram in which
- 6) 3 feddan : 24 kirates = :
- 7) A map is drawn with a scale 1:200000, if the distance between two cities is 8 km in reality then the length between them on the map is cm
- 8) A man divide 90 pounds among three persons by ratio 1:2:3 the smallest share = pounds .

Draft:

Egyptian Virtual School



3)Answer the following:

1)Two persons started a commercial business, the first paid L.E. 5000 and the second paid L.E. 8000 at the end of the year, the profit was L.E.3900 Calculate the share of each of them from the profit.
2)Ahmed bought a radio by L.E. 450 and sold it with profit 10 %, Find the selling price
3)A cube of cheese with edge length 15 cm ,it is wanted to divide it into small cuboid of dimensions 3 cm,5 cm and 1cm. find the number of the small cuboid cheese.
Egyptian Virtual School
4) 50 liters of water were poured in a vessel in the shape of a cuboid , its base is a square of side length 25 cm . Find the height of the water in the vessel.
5)A piece of land in the form of a triangle , the ratio between its side length is 4 :6 : 7 ,if the perimeter of this land equals 51 m , find the length of its sides .



6) The following table shows the marks of 30 students in one of math exam Find the missing data then $\,$, draw the frequency curve of this data $\,$.

Marks	10-	20-	30-	40-	total
Number of students	6	7		8	30







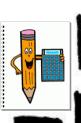
6th prim

Model (1)

	Model (1)
Q1 : Choose the c	orrect answer :
(1) If the Ratio among	g the measures of angles of a triangle is 2 : 3 : 4
then the measure of i	ts angles in the same order are
a) 20 , 30 , 40	b) 20 , 60 , 80
c) 40 , 80 , 60	d) 40 , 60 , 80
(2) If Hazem drinks 21	glasses of milk weekly then the rate of what
the drinks daily is	
a) 3 glasses	b) 7 glasses
c) 14 glasses	d) 20 glasses
(3) A metalic piece in	the shape of a cube of edge length 40cm it's
melted & converted to	o a cuboid whose base area = 2000 cm² then
it's height =	
a) 16 cm	b) 32 cm
c) 64 cm	d) 80cm
(4) On a map is drawi	n such that each 1 centimetre represents 5 km.
then if the distance be	etween two villages is $\frac{1}{2}$ km then the distance
between them on this	map in centimeter equals
a) 0.1	b) 0.4
c) 25	d) 10









Math 6th prim



(5) A merchant sold his goods with profit 15% then the percentage of the selling price to the buying price equals

a) 15 %

b) 85 %

c) 115 %

d) 150 %

<u>Q2</u>:

Amanufacture of clothes produces 8000 pieces daily, if the ratio between what this manufacture produce from the childrens clothes to the adults clothes 2: 3 Find the number of pieces for children's clothes produced in 3 days.

Q3:

- a) If $\frac{x-3}{2} = \frac{5}{3}$, find the value of x?
- b) If the feast festival, one of the shops mode a discount 15% for the price of a refrigerator which equal 1750 pounds. Find the price of the refrigerator after discount?

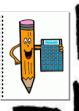
<u>Q4</u>:

If a quantity of sugar with volume 2700 cm³ need to can in a box, show which of the following boxes is suitable? and why?

- a) A cuboid with dimensions 45 cm, 40 cm & 15 cm.
- b) A cube the length of its inner dimension equals 30 cm.









Math 6th prim



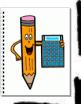
<u>Q5</u>:

The following table shows the dates & the number of trips (in one of the bus stations for the governorates)

Dates	6 am	8 am	10 am	12 am	2 pm	Sum
Number of trips	30	41	40	16	13	140

Draw the frequency curve for this distribution, then answer the following What is the number of trips before 10 am?

a) What is the percentage of the number of trips from 10am till 12 am to the sum of trips?











6th prim

Model (2)

Q1 : Choose the correct answer :

a) If 100 gm of food giv	e 300 calorio	es , then the nun	nber of calories which						
are found in 30 gm o	f the same f	ood equals							
a) 90 calories		b) 100 calories							
c) 900 calories		d) 1000 calorie	S						
b) If the ares of a face of a cube = 4cm2 then its volume in cm3 is									
a) 6	b) 8	c) 24	d) 64						
c) A liquid is put in a glo	ass basin in t	the form of a cul	be to be filled						
completely , if the ca	pacity of the	e basin is one litr	e then the inner edge						
length of the basin in	cm =								
a) 0.1	b) 1	c) 10	d) 100						
d) The side length of a s	quare = 3cn	n then the ratio	between it's side length						
and it's perimeter eq	uals	•••••							
a) 4	b) 3	c) $\frac{1}{4}$	d) $\frac{1}{3}$						
e) The ratio between 12	? kirat to $1\frac{1}{2}$	feddan equals							

Mid-year

a) 3

a) 12:15



c) 1:3

c) 6

b) 4:1

f) The range of values 7, 3, 6, 9, 5 is

b) 4



d) 3:1





Math 6th prim



Q2 :

- a) A quantity of Honey of 2 liters is needed to be distributed into small bottle the capacity of each of them 40 cm³ find the number of needed bottles?
- b) An alloy is made of gold and copper, it's weight is 70 gm, the weight of copper in it is 7gm. find the percentage of the pure gold in it.
 - **Q3**: A man sold his car after one year of using it with price L.E 52000 if its buying price was L.E 65000 find the percentage of his loss.
 - Q4: A box in the shape of a cube in which the length of the inner edge is 36 cm. its's wanted to fill it with washing soap bars in the shape of a cube of edge length 9cm. How many bars can be put in this box.
 - **Q5**: The following table shows the daily wages of 50 workers in a factory

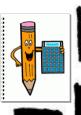
Wages	10-	20-	30-	40-	50-	60-	70-80	Total
Number of	3	6	10	15	8	5	3	50
workers								

First: draw the frequency crive

Second: Find the percentage of the number of workers whose wages begins from L.E 30 to less than L.E 50











6th prim

Model (3)

Q1 : Choose the correct answer :

(1) If $\frac{a}{b} = \frac{c}{d}$ then which of the following statements is true if	(1)	If $\frac{a}{b} =$	$=\frac{c}{d}$ then	which	of the	following	statements	is true	?
--	-----	--------------------	---------------------	-------	--------	-----------	------------	---------	---

a)
$$a \times c = b \times d$$

$$b) \frac{a}{d} = \frac{c}{b}$$

c)
$$\frac{a-3}{b-3} = \frac{c}{d}$$

d)
$$a \times d = b \times c$$

(2) If the sum of edges length of a cube is 144 cm then it's volume equals

- a) 1728 cm b) 1728 cm³
- c) 144 cm³
- d) 144 cm
- (3) At a moment, the length of the shade of a tree of height 3m was 180 cm, then same what is the length of the shade of another tree of height 2 m at the moment
- a) 60 cm
- b) 90 cm
- c) 120 cm
- d) 150cm
- (4) A painter has 25 liters of paints. He uses 2.5 liter of paint per hour. If he finished his work after 5.5 hours. Then how many liters of paint are remained?
 - a) 10.25 litres

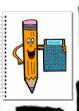
b) 11.25 litres

c) 12.75 litres

d) 13.75 litres

Mid-year









6th prim

(5) If the price of goods in clothes shop is 240 pounds. And its price during sale is 180 pounds then the discount percentage is......

a) 15%

c) 20 %

c) 25%

d) 30%

<u>Q2 :</u>

- c) If the drawing scale for a map is 1:1000 and the length of a road equals 5km. what is the length of this road in the map?
- d) Three persons involved in a business. The first paid 60000 pounds, the second paid 80000 pounds & the third paid 90000 pounds at the end of the year the net profit was 20700 pounds calculate the share of each of them.

Q3:

- a) In the opposite figure ABCD is a parallelogram, find m (< ACD):
- b) If the percentage of success for a school equals 85% and the number of the students in this school equal 800 students. If the ratio between the number of boys and the number of girls equals 2:3 find the number of succeeded girls in this school?





Math 6th prim



Q4 :

A vessel in the shope of a cube whose edge length is 10.5 cm <u>first</u>: Calculate the volume of this vessel in cm³ <u>second</u>: How many mm³ of water is the capacity of this cube?

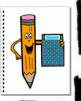
<u>Q5</u>:

The following table respresents the temperature degrees that expected for 30 cities.

a) Draw the frequency curve then answer the following:-

Temperature	24-	28-	32-	36-	40-	44-	Total
degree							
No. of cities	3	4	7	9	5	2	30

b) What is the number of cities whose temperature's are 40 degree and more ?











6th prim

Model (4)

1-Complete:

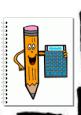
- a) 5 Kg: 3000 gm =:
- b) 1.45 L + 0.5 dm^3 + 50 cm^3 = L
- c) If A:B = 2:3 , B:C= 6:7 then A:C = :
- d) A cuboid with a square base of side length 6 cm and height 10 cm then it's volume is
- e) $\frac{9}{20}$ = %

2- Choose the correct answer:

- a) $\frac{2}{3}$: $3\frac{1}{3}$ =
 - a-1:2
- b-2:5
- c-1:10
- d-1:5
- b) The diagonals are perpendicular in,
 - a- square, rectangle
- b- rhombus, rectangle
- c- square , rhombus
- d- parallelogram, rectangle
- c) If $\frac{a}{b} = \frac{c}{d}$ so which of the following is true
 - $a-a\times c=b\times d$

- $d-d\times c=b\times a$
- d) A plough for agricultural land ploughs 15 feddens in 10 hours then the rate of this plough = Feddans/h
 - $a \frac{2}{3}$
- $b \frac{3}{2}$
- $d \frac{5}{3}$









6th prim

e) A cube the sum of all edges 144 cm then its volume equal...

a- 1728 cm

b-1728 cm^3

 $c-144 cm^3$

d- 144 cm^2

3- a) If the distance between two cities is 180 km with a drawing scale

1:9000000, find the distance between them on the map

- **b)** A car consumes 20 liters of benzene to cover 180 km , how many liters of benzene does the car consume to cover 540 km
- 4- a) in the opposite figure ABCD is a parallelogram in which

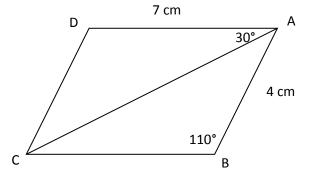
$$m(\angle B) = 110^{\circ}$$

m(∠DAC)=30°

AB=4cm, AD=7cm

Find, a) $m(\angle D)$, b) $m(\angle BAC)$

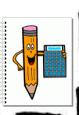
c) m(∠ACD)



- d) The perimeter of parallelogram
- **b)** A sum of money is distributed between two persons in the ratio 3 : 5 ,if the share of the second exceeds the share of first by L.E 30 ,Find the share of each one
- **5- a)** A company for electrical appliance displays the T.V set for 1062 pounds if the company sold with profit percentage is 14%, find the cost price for the T.V set









Math 6th prim



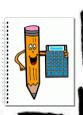
b) The following table shows the ages of visitors to an exhibition within an hour of the day

Visitor age	10-	20-	30-	40-	50-	Total
Number of visitors	6	9	12	10	8	45

- a) Draw the frequency c urve for this distribution
- b) What is the number of visitors whose ages less than 40 years?











6th prim

Model (5)

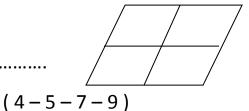
1- Complete:

- a) The ratio between the perimeter of the rhombus and its side length =:
- b) 18 Kirats: 2 feddans =:
- c) 1500 $cm^3 =$ Liters
- d) The range of the values 7, 15, 24, 11, 3 and 18 is
- e) The diagonals are equal in and and

2- Choose the correct answer:

a) If the ratio among the measurement of the angles is 1 : 2 : 3 then the measure for the smallest angle equal

c) In the opposite figure, The number of parallelograms which can be obtained is

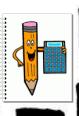


d) The following data are descriptive except:

e) If the length in drawing is 2 cm ,and the real length is 6 cm .then the drawing length is: (1:3-1:30-1:300-1:300000)











6th prim

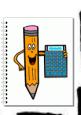
- **3- a)** A metallic cube of edge length 12 cm ,its wanted to melted and convert it into ingots in the shape of cuboids each of them has the dimensions 3 cm , 4 cm ,6 cm calculate the number of ingots that are obtained
 - **b)** Three merchants the profit of first 42% the profit of the second is 28% the profit of the third 36000 pounds what is the total profit in pounds?
- **4- a)** The ratio between the length and the width of rectangle is 7:4 ,If the perimeter of the rectangle is 44 cm .Find out the length and the width of the rectangle and then calculate the area
 - **b)** A tractor ploughs 6 feddans within 3 hours find the rate of work of this tractor, if another tractor ploughs 6 kirats in 10 minutes, which of them is better
- **5-a)** Three persons formed a company the share of first is $\frac{5}{3}$ the share of The second ,and the share of second $\frac{4}{3}$ the share of third ,If the share of first exceeds the share of the third by 8250 pounds find the share of each
 - **b)** To help the poor people ,a group of students donated amounts of money in pounds shown in the following table .

Money in pounds	3-	5-	7-	9-	11-	Total
Number of students	7	10	15	10	8	50

- a) Draw the frequency curve for the distribution
- b) what is the number of students that donated 7 pounds or more?











6th prim

Model (6)

1- Complete:

- a) The rectangle is a parallelogram with
- b) If a:b = 2:3, b:c = 3:5 then a:c =:
- c) The ratio between the circumference of the circle and its diameter = ...
- d) If $\frac{x+12}{6}$ = 4 then X=
- e) If the length in drawing is 2.5 cm and the real length is 1.6 m then the drawing scale is :
- f) If the volume of a cuboid = 100 cm³ and its base area = 100 cm² then its height =.....

2- Choose the correct answer:

a) If one of the angles of the parallelogram is right and two of its adjacent

sides are equal in length, then it is called

(Rhombus – square – rectangle – triangle)

b) If the numbers 4, X, 12, 18 are proportional, then the value of X=

$$(2-3-6-45)$$

c) A cube with volume 125 cm^3 ,then its base area is

$$(25 cm^2 - 25 cm - 5 cm^2 - 5 cm)$$

d) A plough for agricultural land plough 14 feddans within 3.5 hours ,then the rate of this plough = feddans / hour

$$(\frac{1}{2} - 4 - 8 - 49)$$

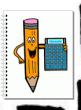
e) Rectangle it's length $\,$ 6 cm and area 24 $\,$ $\,$ $\,$ then the ratio between the

perimeter and its length is: :

$$(4:1-10:3-12:5-3:2)$$











6th prim

- **3- a)** If the ratio among the prices of three electrical sets (TV oven fridge) is 4:5:8 and the price of the TV st is L.E 1200 calculate the price of the oven and the fridge
 - **b)** A cube –shaped vessel ,of inner edge length 20 cm was filled of honey, Find :
 - a- Its capacity
 - b- If the price of one liter is L.E 8 find the price of honey
- **4- a)** The height of a minaret is 22m and the length of its shadow in a moment equals 6 m, whats the height of a house infront of this minaret if the length of its shadow equal 3 m in the same moment
 - **b)** A car dealer bough a car for 45000 pounds and spent 5000 pounds to repair it , then he sold it for profit 10% ,Find the selling price
- **5- a)** A glass vessel is cuboid shape its inner edge length is 30 cm this vessel contain an amount of water ,if we throw a metallic piece in it then the water level raised 5 cm because of that find the volume of metallic piece
- **b)** In the opposite figure:

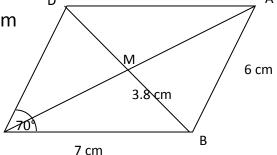
ABCD is a parallelogram AB=7 cm, BM 3.8 cm

BC= 7cm and $m(\angle BCD)=70^{\circ}$

Without using geometrical instruments find

a- m(∠ADC)

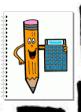
b- The perimeter of the triangle BCD



6-a)A picture of habitation edifices is taken with a drawing scale 1:100000, If the real distance between two cities is 36 km find the distance between them on the map











6th prim

b) The following table shows the numbers of hours which are spent by60 pupils to study their lessons daily:-

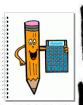
Number of hours	1-	2-	3-	4-	5-6	Total
Number of pupils	9	13	18	12	8	60

a- Represent this data by the frequency curve

b- what is the percentage of the greatest number of pupils to study their lessons daily











6th prim

Model Answer (1)

 $(1) \qquad 1^{st} \ angle \ : \qquad 2^{nd} \ angle \ : \qquad 3^{rd} \ angle \ : \qquad sum$

2 : 3 : 4 : 9

: 180

$$1^{\text{st}}$$
 angle = $\frac{2 \times 180}{9} = 40^{\circ}$

$$2^{\text{nd}}$$
 angle $=\frac{3 \times 180}{9} = 60^{\circ}$

$$3^{\text{rd}}$$
 angle = $\frac{4 \times 180}{9} = 80^{\circ}$

The angles are : 40° , 60° , 80°

2- The rate of what he drinks daily = $\frac{21 \text{ cups}}{7 \text{ days}}$ = 3 glasses / day

3- volume of cube = $40 \times 40 \times 40 = 64000 \ cm^3$

H of cuboid =
$$\frac{V}{BA} = \frac{64000}{2000} = 32cm$$
.

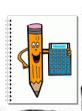
 $4-5 \, km \times 100000 = 500000 \, cm$

D.L =
$$\frac{\frac{1}{2} \times 1}{500000} = \frac{1 \times 100000}{100000000} \ km$$
 D.L : R.L

$$=\frac{1}{10}$$
 cm = 0.1 cm 1 : 500000

: $\frac{1}{2}$ km









6th prim

Pieces of children in one day =
$$\frac{2 \times 8000}{5}$$
 = 3200 *pices*

The factory produces in 3 day =
$$3200 \times 3 = 9600$$
 pieces.

Q3:a)
$$x - 3 = \frac{2 \times 5}{3} = 3.33$$

$$x = 3.33 + 3 = 6.33$$

b) befor discount: discound: after discount

The price after discount =
$$\frac{1750 \times 85}{100}$$
 = 1487.5 *L. E*

Q4: v.of cuboid =
$$45 \times 40 \times 15 = 27000cm^2$$

v. of cube =
$$30 \times 30 \times 30 = 27000 \text{ cm}^3$$

Both of the boxes are suitable.







Math 6th prim



Q5: B) The number of trips before 10 am = 30 + 41 = 71 trips.

C) The percentage =
$$\frac{40}{140} \times 100 = 28.57 \%$$

Sets	Center of the	Frequency	Point
	set		
6 am	$\frac{6+8}{2} = 7$	30	(7,30)
8 am	$\frac{8+10}{2} = 9$	41	(9,41)
10 am	$\frac{10+12}{2} = 11$	40	(11,40)
12 am	$\frac{12+14}{2} = 13$	16	(13,16)
2 pm	$\frac{14+16}{2} = 15$	13	(15,13)

Draw by yourself









6th prim

Model Answer (2)

(1) a)

Gm	100	30
calories	300	X ?

$$x = \frac{30 \times 300}{100} = 90 \text{ calories}$$

b)
$$E = \sqrt{FA} = \sqrt{4} = 2cm$$

$$V = E \times E \times E = 2 \times 2 \times 2 = 8cm^3$$

c) 1 liter =
$$\times 100 = 100 \text{ cm}^3$$
 11iter = $\times 1000 = 1000 \text{ cm}^3$

V. of liquid =
$$1000 \text{cm}^3$$

$$E = \sqrt[3]{V} = \sqrt[3]{1000} = 10cm$$

d)
$$\frac{1}{4}$$

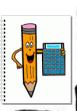
e) 12 kirats :
$$1\frac{1}{2}$$
 feddons

12 kirats :
$$36 \text{ kirats}$$
 (÷ 12)

f) Range = max value - min value =
$$9 - 3 = 6$$

Mid-year







Math 6th prim



 $Q2:a) 2L = 2000 cm^3$

Number of bottles = $\frac{2000}{40}$ = 50 *bottles*

b) The weight of the pure gold = 70 - 7 = 63 gm

The percentage of the pure gold $=\frac{63}{70} \times 100 = 90 \%$

Q3: C.P : loss : s.p

100% : ?

65000 : 13000 : 52000

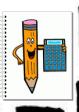
Percentage of loss = $\frac{100 \times 13000}{65000} = 20\%$

Q4: volume of cube = $36 \times 36 \times 36 = 46656 \ cm^3$

Volume of soapbar = $9 \times 9 \times 9 = 729 \ cm^3$

Namber opf soapbars = $\frac{46656}{729}$ = 64 soap bars







Math 6th prim



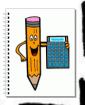
Q5:

Sets	Center of the set	Frequency	Point
10 -	$\frac{10+20}{2} = 15$	3	(15,3)
20 –	$\frac{20+30}{2} = 25$	6	(25,6)
30-	$\frac{30+40}{2} = 35$	10	(35,10)
40-	$\frac{40+50}{2} = 45$	15	(45, 15)
50-	$\frac{50+60}{2} = 55$	8	(55,8)
60-	$\frac{60+70}{2} = 65$	5	(65,5)
70-80	$\frac{70+80}{2} = 75$	3	(75,3)

Draw by yourself

Second: The no of workers = 10 + 15 = 25 workers

The percentage of workers = $\frac{25}{50} \times 100 = 50 \%$









6th prim

Model Answer (3)

1)
$$a \times d = b \times c$$

2)
$$E = \frac{144}{12} = 12cm$$

$$V = 12 \times 12 \times 12 = 1728 \ cm^3$$

3) The shade =
$$\frac{180 \times 2}{3}$$
 = 120 *cm*

Height	3 m	2m
Shade	180 cm	×

4) after 5.5 hours he uses =
$$\frac{2.5 \times 5.5}{2}$$
 = 13.75 *liters*

The paint reamainded = 25 - 13.75 = 11.25 liters

Liter	2.5	× ?
Hours	1	5.5

5) Befor discount : discount : after discount

100% : ? :

240 L.E : 60 : 180 L.E

Percentage of discount = $\frac{60 \times 100}{240} = 25\%$









6th prim

Q2: a) D.L =
$$\frac{1\times5}{1000} = \frac{1}{200} \times 100000 \ km = 500cm$$
. D.L : R.L

1 : 1000

? : 5km

b) 1^{st} : 2^{nd} : 3^{rd}

60000 : 80000 : 90000 ($\div 10000$)

6 : 8 : 9

 1^{st} : 2^{nd} : 3^{rd} : sum

6 : 8 : 9 : 23

20700

• The share of $1^{st} = \frac{6 \times 20700}{23} = 5400 L.E$

• The share of $1^{st} = \frac{8 \times 20700}{23} = 7200 L.E$

• The share of $1^{st} = \frac{9 \times 20700}{23} = 8100 L.E$ Q3:

a) $m (< D) = 100^{\circ}$

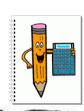
 $M (< ACD) = 180 - (100 + 35) = 45^{\circ}$

b) Boys : girl : sum

2 : 3 : 5

? : 800









6th prim

The number of girls = $\frac{3 \times 800}{5}$ = 480 *girls*

The number of succeeded girls = $480 \times \frac{85}{100} = 408 \ girls$

Q4: First: V of the vessel = $E \times E \times E$ = $10.5 \times 10.5 \times 10.5$

 $= 1157.625 cm^3$

Second: $1157.625 \times 1000cm^3 = 1157625 mm^3$

Q5: b) The number of cities = 5 + 2 = 7 cities

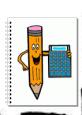
Q5: a)

Sets	Center of the set	Frequency	Point
24 –	$\frac{24+28}{2} = 26$	3	(26,3)
28 –	$\frac{28+32}{2} = 30$	4	(30,4)
32-	$\frac{32+36}{2} = 34$	7	(34,7)
36-	$\frac{36+40}{2} = 38$	9	(38,9)
40-	$\frac{40+44}{2} = 42$	5	(42,5)
44-	$\frac{\frac{2}{44+48}}{2} = 46$	2	(46,2)

Draw by yourself











6th prim

Model answer 4

1.comple:

a) 5000 : 3000 ÷ 1000

(5 kg x 1000 = 5000 gm)

5:3

b) 1.45 L + 0.5 dm^3 + 0.05 L = 2L (50 $cm^3 \div 1000 = 0.05 L$)

c)

A : B : C

2:3:3

6:6:7

12:18:21 ÷3

4:6:7

a:c=4:7

d) volume of cuboid = $s \times s \times h = 6 \times 6 \times 10 = 360 \text{ } cm^3$ L = W = s

e)($\frac{9}{20}$ x 100)% = 45%

2.choose:

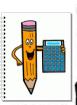
a) $\frac{2}{3}$: $\frac{10}{3}$

6:30

1:5

b) Square and rhombus









6th prim

c)
$$a x d = c x b$$

d) The rate =
$$15 \div 10 = \frac{3}{2}$$
 feddan /hr

$$E = \frac{sum\ of\ edges}{12} = \frac{144}{12} = 12\ cm$$

$$V = E \times E \times E = 12 \times 12 \times 12 = 1728 \ cm^3$$

Q3.a. D.L: R.L

1:9000000

X:180

$$X = \frac{180 \times 1}{9000000} = \frac{1}{50000} km \times 100000 = 2 cm$$

<u>b)</u>

$$X = \frac{540 \times 20}{180} = 60 L$$

Liter	20	X
Km.	180	540

Q4.a.

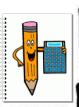
- a) m(<D) = 110^o (opposite angles)
- b) m(<BAC) = 180 (110 + 30) = 40^{o} (consecutive angles)
- c) m(<ACD) = 180 (110 + 30) = 40°
- d) The perimeter = $(L + W) \times 2 = (7 + 4) \times 2 = 22$ cm
- **b)** $P_1: P_2:$ difference
- 3:5:2

_ : _ : 30

$$P_1 = \frac{30 \times 3}{2} = 45 \text{ L.E}$$
, $P_2 = \frac{30 \times 5}{2} = 75 \text{ L.E}$









Math 6th prim



Q5.a)

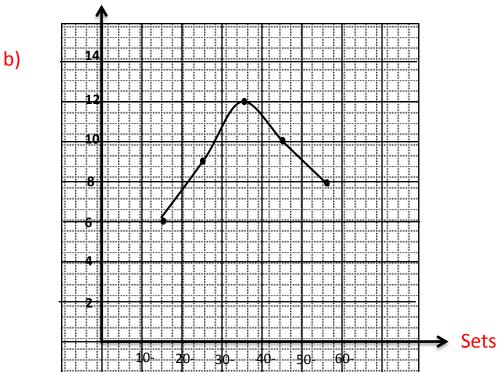
C.P: Profit: S.P

100%: 14% : 114%

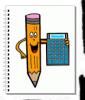
_ : _ : 1026

C.P = $\frac{1026 \times 100}{114}$ = 900 pounds

Frequency



The number of visitors = 6+9+12=27 visitor









6th prim

Model answer 5

Q1. Complete:

a) 4:1

3

b) 18 kirat : 48 kirat ÷3

(2feddan x 24 = 48 kirats)

- 5 : 16
 - : 8
- c) $1500 cm^3 \div 1000 = 1.5 L$
- d) The greatest number = 24, the smallest number = 3Range = greatest – smallest = 24 - 3 = 21
- e) Squar rectangle

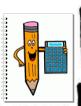
Q2.choose:

- a) $A_1 : A_2 : A_3 : Sum$
- 1 : 2 : 3 : 6
- : :- :180

$$A_1 = \frac{180 \times 1}{6} = 30^0$$
, $A_2 = \frac{180 \times 2}{6} = 60^0$

- $A_3 = \frac{180 \times 3}{6} = 90^{\circ}$, then the smallest angle is 30°
 - b) A: b = 2:5 then $\frac{2}{2+5}$ = 2:7
 - c) 7 x 9
 - d) Age
 - e) D.L: R.L
 - 2cm : 6m ($6m \times 100 = 600 cm$)
 - 2:600 ÷2
 - 1:300









6th prim

Q3.a volume of cube = E x E x E = 12 x 12 x 12 = 1728 cm^3 Volume of ingots = L x W x H = $3 \times 4 \times 6 = 72 \text{ } cm^3$

The number of ingots = $\frac{big\ volume}{small\ volume} = \frac{1728}{72} = 24$ ingots

 $1^{st}:2^{nd}:3^{rd}:sum$ Q3.b)

42 % : 28 % : - : 100%

_ : _ :36000 :

The profit of the $3^{rd} = 100\% - (42\% + 28\%) = 30\%$

The total profit= $\frac{36000 \times 100}{30}$ = 120 000 pounds

L: W: Preimeter

(4+7)x2=22cm 7:4:22

_ : _ : 44

 $L = \frac{44 \times 7}{22} = 14 \text{ m}$, $W = \frac{44 \times 4}{22} = 8 \text{ m}$, Area = L x W = 14 x 8 = 112 m^2

Q4.b) 6 feddan x 24 = 144 kirats , 3 hours x 60 = 180 min.

First tractor = $144 \div 180 = 0.8$ kirats / min.

Second tractor = $6 \div 10 = 0.6$ kirats / min.

The first tractor is the better

 $1^{st}: 2^{nd}: 3^{rd}$

 $1^{st}:2^{nd}:3^{rd}:difference$

20 : 12 : 9 : 11 _ : _ : _ 825 8250

20:12:9

 $1^{st} = \frac{20 \times 8250}{11} = 15000$ pounds

 $2^{nd} = \frac{12 \times 8250}{11} = 9000 \text{ pounds}$

 $3^{rd} = \frac{9 \times 8250}{11} = 6750$ pounds

<u>Mid-year</u>



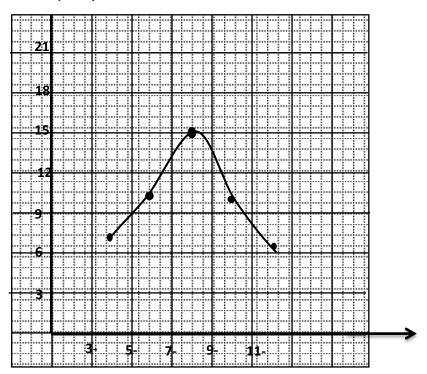


Math 6th prim



Frequency

Q5.b)



Number of students = 15 + 10 + 8 = 33 student









6th prim

Model answer 6

Q1 complete:

a) right angle

$$6:9:15(\div 3)$$
 \longrightarrow a:c=

c)
$$\pi:1$$

d)
$$X + 12 = 4 \times 6 = 24$$

$$X = 24 - 12 = 12$$

$$2.5 \text{ cm} : 1.6 \text{ m}$$
 $(1.6 \text{ m} \times 100 = 160 \text{ cm})$

f) Height =
$$\frac{volume}{BA} = \frac{1000}{100} = 10 \text{ cm}$$

Q2.choose:

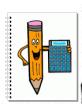
b)
$$\frac{4}{x} = \frac{12}{18}$$

 $X = \frac{4 \times 18}{12} = 6$

c)
$$E = \sqrt[3]{V} = \sqrt[3]{125} = 5 \text{ cm}$$

B A = E X E =
$$5 \times 5 = 25 \text{ } cm^2$$









6th prim

- d) The rate = $14 \div 3.5 = 4$ feddan /hr
- e) W= $A \div L = 24 \div 6 = 4$ cm

$$P. = (L + W) \times 2 = (4 + 6) \times 2 = 20 \text{ cm}$$

P : L

 $20:6 (\div 2)$

10:3

Q3.a) T.v : oven : fridge

4:5:8

1200 : _ : _

the price of oven = $\frac{5 \times 1200}{4}$ = 1500 pounds

the price of fridge = $\frac{8 \times 1200}{4}$ = 2400 pounds

Q3.b)

- a) Capacity = $20 \times 20 \times 20 = 8000 \text{ } cm^3 \div 1000 = 8 \text{ Litre}$
- b) The price of honey = $8 \times 8 = 64$ pounds

Q4.a)

$$X = \frac{3 \times 22}{6} = 11 \text{ m}$$

Height	22 m	Χ
shadow	6 m	3 m

Q4.b) c.p = 45 000 +5 000 = 50 000 pounds

c.p : profit : s.p

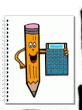
100 : 10 : 110

50 000 : X

$$s.p = \frac{110x \, 50 \, 000}{100} = 55000 \text{ pounds}$$

Mid-year









6th prim

Q5.a) volume of the metallic piece = $30 \times 30 \times 5 = 4500 \text{ cm}^3$

Q5.b)

a) $M(<ADC) = 180 - 70 = 110^{0}$

b) Perimeter = 7 + 6 + 3.8 + 3.8 = 20.6 cm

Q6.a)

D.L: R.L

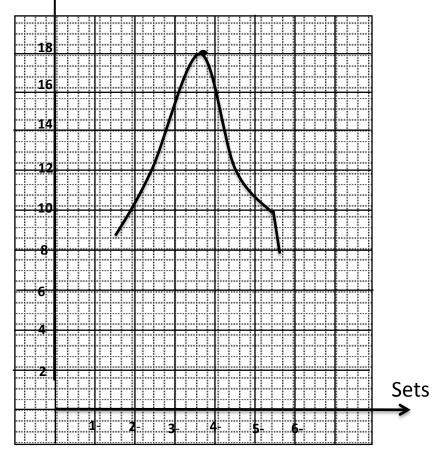
1 : 100 000

_ : 36

D.L =
$$\frac{36 \times 1}{100000}$$
 = 0.00036 km x 100 000 = 36 cm

Frequency

b)

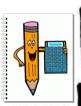


The percentage =
$$\frac{18}{60} \times 100 = 30\%$$

Good Luck













Test (1)

Answer the following questions:

1 .	Com	olete	each	of the	following	statements:	
------------	-----	-------	------	--------	-----------	-------------	--

- a) The ratio between 250 gm and $\frac{1}{8}$ kg = " in the simplest form"
- b) $\frac{3}{4}$ =%
- c) If the numbers 3, 5, 9 and x were proportional, then $x = \dots$
- d) The two diagonals are perpendicular in,
- 2. Choose the correct answer:

((1:10 or 1:100 or 1:1000 or 1:10000))

- c) 6500 dm³=m³ ((6.5 or 65 or 650 or 6500 000))
- d) A cube with a base perimeter = 36cm, then its volume =cm³
 ((36 or 6 or 729 or 216))

3.

a) A company at the electrical appliances displays the TV set for 1026 panels if the company sold it with profit percentage 14%. Find the cost price for the TV set.









. 5 cm

D

6cm

8 cm

5 cm

b) In the opposite figure:

ABCD is a parallelogram which:

$$m(\angle A) = 60^{\circ}$$
, $m(\angle DBC) = 45^{\circ}$

Am = 5cm, BC = 8cm find

- 1) AD =
- 2) AC =
- 3) m(∠ADC) =
- 4) m(∠ABD) =





the share of the first one exceed the share at the second by 80 square metre, find:

the area of the land and the share of each other first and the second.

b) A metallic cuboid of dimensions 8,18 and 24cm it was melted and converted it into ingots in ingots in the shape of cubes with each edge length 6cm. Calculate the number of ingots.

5.

- a) A factory produce 9000 bottles of soft drink in 12 hours? What is the rate of production per now?
- b) The following table shows the marks of 100 students in one month in month:

Mark	20-	30-	40-	50-	Sum
Number of student	15	30	40	15	100

- 1) What is the number of students who record less than 40 marks
 - 2) Draw the frequency curve for this distribution.









Test (2)

1. Complete:

- a) The ratio between $3\frac{1}{5}$: 9.6 =:
- b) If $\frac{x+2}{8} = \frac{3}{4}$ then X =
- c) If the drawing length = 6cm, and Real length = 36m then the drawing scale is
- d) A cube the perimeter of its base is 36cm then its Volume iscm³
- e) If A: B = 2:3, A: C = 4:5 then B: C =::

2. Choose:

a) The two diagonals are equal and perpendicular in

(rectangle, square, parallelogram

rhombus)

- b) $4m^3 = \dots dm^3$ (4000, 400, 40, 4)
- c) The following data is descriptive except

(favorite color, birth place, age, blood species)

d) The ratio between the perimeter of the square and its side length is

e)
$$10\% + \frac{9}{20} = \dots \%$$
 (35, 45, 55, 65)









3.

- a) A house its height 18m and the length of its shade at the moment is 4m , How many the height of another tree. Its shade length at the same moment 3m.
- b) Hazim bought a car in 35000 pound then he append 15000 pound to repair it then he sold it by 55000 pound. Find the percentage of the profit?

4.

- a) A box of Carton in a cuboid shape its inner dimensions 40 , 50 , 30 cm , How many blocks of soap we can fill the box if the dimensions of the each block soap is 8 , 5 , 3cm
- b) A cube its inner edge is 20cm fill with honey if the price of one litre of honey is 8 pound. Find the price of all honey.









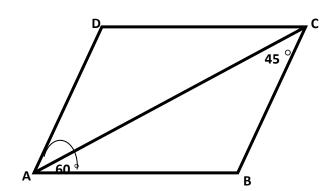
5. a)In the opposite figure

ABCD is parallelogram

$$m(\angle BAD) = 60^{\circ}$$
, $m(\angle ACB) = 45^{\circ}$

Find:

- 1) m (A \hat{B} C) =
- 2) m (<ACD) =



b) On the orphan day a group of students donated amounts of many in pounds shown the following table.

Many in pounds	50-	60-	70-	80-	90-	100-	Total
Number of students	10	20	40	60	50	20	200

Draw the frequency curve.









Test (3)

1. cho	ose the	correct	answer	from	the	given	ones:
--------	---------	---------	--------	------	-----	-------	-------

- a) $\frac{1}{2}$ day: 18 hour = (3:2 or 4:3 or 2:3 or 1:9)
- b) $\frac{9}{20}$ = (40 or 45 or 60 or 90)
- c) If the drawing length = 2cm and the real length = 20m, then the drawing scale equals (1:10,1:100,1:1000,1:1000)
- d) The volume of cuboid whose dimensions are 2cm,3cm,5cm =cm³ (10 or 25 or 30 or 50)
- e) If the length of rectangle is 6cm and its area is 24cm², then the ratio between its perimeter and its length is

(4:1 or 3:2 or 12:5 or 10:3)

2. Complete each of the following:

a)
$$\frac{2}{5} = \frac{\dots}{20}$$

3.

- b) 12 kirats : 2 feddans = :
- c) The volume of a cube whose base area is 9cm² equalscm³
- d) If a:b=2:3,b:c=3:5 then a:c=.....::

a) The ratio among the measurements of angles in a triangle is 2:3:4 find the measure of each angle in this triangle.









b) A picture of a natural scene is drawn with drawing scale 1:100 if the real length of a tree is 8 metre. Find its length in the picture.

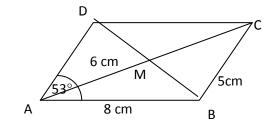
4.

- a) A bottle of milk of capacity 2 litres is needed to be distributed into small bottles the capacity of each of them 200 milliliters. Find the number of small bottles.
- b) In the opposite figure

 ABCD is a parallelogram in which

 AB = 8cm , BC = 5cm , AM = 6cm

 m (A) = 53°, without using geometrical instruments Find



- 1) m(∠ ABC)
- 2) the perimeter of the triangle ADC

5.

- a) A father distributed 9000 pounds among his three sons if the share of the first was third of the money and the ratio between the share of the second and the third is equals 2: 3 calculate the share of each of them.
- b) The following table shows the marks of 40 students in one of math exam.

Marks	10-	20-	30-	40-	Sum
Number of students	5	12	17	6	40

- 1) What is the number of students whose records less than 30 marks.
- 2) Draw the frequency curve for this distribution.









Answer

Model answer (1)

Q1)

a)
$$\Rightarrow$$
 250 gm : $\frac{1}{8}$ kg \Rightarrow $\frac{1}{8}$ kg x 1000 = 125 gm

b)
$$\frac{3}{4}$$
 X 100% = 75%

c)
$$\frac{3}{5} = \frac{9}{x} \rightarrow x = \frac{5 \times 9}{3} = 15$$

d) rhombus, square

Q2)

a) DL: RL

2cm : 20m \Rightarrow 20 m x 100 = 2000cm

2cm: 2000em ÷ 2

1 : 1000

b) Range = max - min = 57 - 29 = 28

c) 6500 dm3 ÷ 1000 = 6.5 m3

d)
$$E = \frac{P}{4} = \frac{36}{4} = 9cm$$

 $V = 9 \times 9 \times 9 = 729 \text{ cm}$ 3









Q3)

a) CP: profit: SP

100:14:114

: 1026

Cost price =
$$\frac{1026 \times 100}{114}$$
 = 900 pounds

b)

1-
$$\overline{AD} = \overline{BC} = 8$$
cm

$$2 - \overline{AC} = 2 \text{ Am} = 2 \text{ x 5} = 10 \text{ cm}$$

3- m (
$$\angle$$
ADC) = 180 $^{\circ}$ - 60 $^{\circ}$ = 120 $^{\circ}$

4- M (
$$\angle$$
ABD) = 180° - (60° + 45°) = 75°

Q4)

a) first: second: diff

7 : 5 : 2

80

The share of the first = $\frac{7 \times 80}{2}$ = 280 m²

The share of the second = $\frac{5 \times 80}{2}$ = 200 m²

The area = $280 + 200 = 480 \text{ m}^2$

b) V of the cuboid = $8 \times 18 \times 240 = 3456 \text{ cm}^3$

V of the ingot = $6 \times 6 \times 6 = 216 \text{ cm}^3$

The numbers of ingots = $\frac{3456}{216}$ = 16 ingot









Q5)

a) The rate =
$$\frac{9000}{12}$$
 = 750 bottles / hours

b)

Sets	Center of sets	Frequency	Points		
20	25	15	(25,15)		
30-	35	30	(35,30)		
40-	45	40	(45,40)		
50-	55	15	(55,15)		
Total 100					

- a) Draw by your self
- b) 45 students.









Model answer (2)

- 1. Complete:
 - a) 1:3 b) 4
- c) 1 : 600 d) 729 e) 6 :

5

- 2. Choose:
 - a) Square b) 4000 c) age d) 4:1 e)

55%

- 3.
- a) height: shade

18 : 4

The height of tree = $\frac{3 \times 18}{4}$ = 13.5 m

b) The cost = 35000 + 15000 = 50000 pounds

The profit = 55000 - 50000 = 5000 pounds

Then, percentage of profit = $\frac{5000}{50000}$ x 100 = 10%

- 4.
- a) The number of blocks = $\frac{\text{the volume of cuboid}}{\text{the volume of one block}}$ $=\frac{40 \times 50 \times 30}{8 \times 5 \times 3} = 500$ block









b) The volume of the cube = $20 \times 20 \times 20 = 8000 \text{ cm}^3 \ (\div 1000)$ = 8 liter

The price of honey = $8 \times 8 = 64$ L.E.

5-

a) – m (A
$$\widehat{B}$$
C) = 180° – 60° = 120° (adjacent angles)
-m (A \widehat{C} D) = 60° – 45° = 15°









Model answer (3)

- 1. Choose:
 - a) 2:3
- b) 45% c) 1: 1000 d) 30cm³ e) 10

- : 3
- 2. Complete:
 - a) 8
- b) 1:4
- c) 27cm³ d) 2:5

- e) 30
- 3.
- a) 1st : 2nd : 3rd : sum

 - ?: ? : ? : 180

$$1^{st}$$
 angles = $\frac{180 \times 2}{9}$ = 40°

$$2^{\text{nd}}$$
 angle = $\frac{180 \times 3}{9}$ = 90°

$$3^{\text{rd}}$$
 angle = $\frac{180 \times 4}{9}$ = 80°







b) D.L : R.L

1 : 100

? : 8m

D.L =
$$\frac{8 \times 1}{100}$$
 = 0.08m = 80 cm

4.

a) The 2 litre = 2000mL

the number of bottles = $\frac{2000}{200}$ = 10 bottle

b)

1) m (\angle ABC) = 180 – 53 = 127° (adjacent angles)

2) the perimeter of the triangle ACD = 5 + 8 + 12 = 25cm

5.

a) The share of the first = $\frac{1}{3}$ x 9000 = 3000 pounds

The rest = 9000- 3000 = 6000 pound

2nd : 3rd : sum

2 : 3 : 5

? : ? : 6000

The share of the second = $\frac{6000 \times 2}{5}$ = 2400 pounds

The share of the third = $\frac{6000 \times 3}{5}$ = 3600 pounds







b)

Sels	The center	Frequency	point
10-	15	5	(15.5)
20-	25	12	(25,12)
30-	35	17	(35,17)
40-	45	6	(45,6)

- 1) Draw by your self
- 2) The number of students = 12+5 = 17 student





Model (1)

1- Complete:

- a) The rectangle is a parallelogram with
- b) If a:b = 2:3, b:c = 3:5 then a:c =:
- c) The ratio between the circumference of the circle and its diameter = ...
- d) If $\frac{x+12}{6}$ = 4 then X=
- e) If the length in drawing is 2.5 cm and the real length is 1.6 m then the drawing scale is :
- f) If the volume of a cuboid = 1000 cm³ and its base area = 100 cm² then its height =.....

2- Choose the correct answer:

a) If one of the angles of the parallelogram is right and two of its adjacent sides are equal in length ,then it is called

(Rhombus – square – rectangle – triangle)

b) If the numbers 4, X, 12, 18 are proportional, then the value of X=

$$(2-3-6-45)$$

c) A cube with volume 125 cm^3 ,then its base area is

$$(25 cm^2 - 25 cm - 5 cm^2 - 5 cm)$$

d) A plough for agricultural land plough 14 feddans within 3.5 hours ,then the rate of this plough = feddans / hour

$$(\frac{1}{2}, 4-8-49)$$

e) Rectangle it's length 6 cm and area 24 cm^2 then the ratio between the perimeter and its length is

$$(4:1-10:3-12:5-3:2)$$

3- a) If the ratio among the prices of three electrical sets (TV – oven – fridge) is 4:5:8 and the price of the TV set is L.E 1200 calculate the price of the oven and the fridge







- **b)** A cube –shaped vessel ,of inner edge length 20 cm was filled of honey, Find :
 - a- Its capacity
 - b- If the price of one liter is L.E 8 find the price of honey
- **4- a)** The height of a minaret is 22m and the length of its shadow in a moment equals 6 m, what's the height of a house in front of this minaret if the length of its shadow equal 3 m in the same moment
 - **b)** A car dealer bough a car for 45000 pounds and spent 5000 pounds to repair it , then he sold it for profit 10% ,Find the selling price
- **5- a)** A glass vessel is cuboid shape its inner edge length is 30 cm this vessel contain an amount of water ,if we throw a metallic piece in it then the water level raised 5 cm because of that find the volume of metallic piece
- **b)** In the opposite figure:

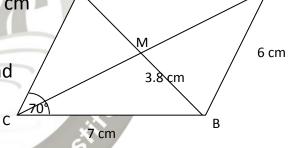
ABCD is a parallelogram AB=7 cm, BM 3.8 cm

BC= 7cm and m(∠BCD)=70°

Without using geometrical instruments find

a- m(∠ADC)

b- The perimeter of the triangle BCD



6-a)A picture of habitation edifices is taken with a drawing scale 1:100000, If the real distance between two cities is 36 km find the distance between them on the map







b) The following table shows the numbers of hours which are spent by60 pupils to study their lessons daily:-

Number of hours	1-	2-	3-	4-	5-6	Total
Number of pupils	9	13	18	12	8	60

a- Represent this data by the frequency curve

b- What is the percentage of the greatest number of pupils to study their

lessons daily





Model (2)

Q1 : Choose the correct answer :

If 100 am of food aiv	re 300 calor	ies . then the num	nber of calories which		
a) 90 calories	y the sume				
c) 900 calories		d) 1000 calories			
If the areas of a face	of a cube =	: 4cm2 then its vo	lume in cm3 is		
a) 6	b) 8	c) 24	d) 64		
A liquid is put in a glo	ass basin in	the form of a cub	oe to be filled		
completely , if the co	pacity of th	e basin is one litr	e then the inner edge		
length of the basin in	n cm =				
a) 0.1	b) 1	c) 10	d) 100		
The side length of a	square = 3ci	m then the ratio b	oetween it's side length		
and it's perimeter eq	ıuals		in and the second		
a) 4	2,b) 3	gua9 1/5	d) $\frac{1}{3}$		
The ratio between 12	2 kirat to $1\frac{1}{2}$	<u>1</u> feddan equals			
a) 12 : 15	b) 4 : 1	c) 1 : 3	d) 3 : 1		
The range of values	7,3,6,9,	5 is			
a) 3	b) 4	c) 6	d) 12		
	are found in 30 gm of a) 90 calories c) 900 calories If the areas of a face a) 6 A liquid is put in a glo completely, if the cal length of the basin in a) 0.1 The side length of a s and it's perimeter eq a) 4 The ratio between 12 a) 12:15 The range of values	are found in 30 gm of the same a) 90 calories c) 900 calories If the areas of a face of a cube = a) 6 b) 8 A liquid is put in a glass basin in completely, if the capacity of the length of the basin in cm = a) 0.1 b) 1 The side length of a square = 3cc and it's perimeter equals a) 4 b) 3 The ratio between 12 kirat to 1 a) 12:15 b) 4:1 The range of values 7, 3, 6, 9,	c) 900 calories If the areas of a face of a cube = 4cm2 then its voor a) 6 b) 8 c) 24 A liquid is put in a glass basin in the form of a cube completely, if the capacity of the basin is one litrelength of the basin in cm = a) 0.1 b) 1 c) 10 The side length of a square = 3cm then the ratio be and it's perimeter equals a) 4 b) 3 c) $\frac{1}{4}$ The ratio between 12 kirat to $1\frac{1}{2}$ feddan equals a) 12:15 b) 4:1 c) 1:3		





Q2:

- a) A quantity of Honey of 2 liters is needed to be distributed into small bottle the capacity of each of them 40 cm³ find the number of needed bottles?
- b) An alloy is made of gold and copper, it's weight is 70 gm, the weight of copper in it is 7gm. find the percentage of the pure gold in it.
 - **Q3**: A man sold his car after one year of using it with price L.E 52000 if its buying price was L.E 65000 find the percentage of his loss.
 - Q4: A box in the shape of a cube in which the length of the inner edge is 36 cm. it's wanted to fill it with washing soap bars in the shape of a cube of edge length 9cm. How many bars can be put in this box.
 - **Q5**: The following table shows the daily wages of 50 workers in a factory

Wages	10-	20-	30-	40-	50-	60-	70-80	Total
Number of workers	3	6	10	15	8	5	3	50

First: draw the frequency curve

Second: Find the percentage of the number of workers whose wages begins from L.E 30 to less than L.E 50







Model (3)

Q1 : Choose the correct answer :

(1) If $\frac{a}{b} = \frac{c}{d}$ then which of the following statements is true?

a)
$$a \times c = b \times d$$

b)
$$\frac{a}{d} = \frac{c}{b}$$

c)
$$\frac{a-3}{b-3} = \frac{c}{d}$$

d)
$$a \times d = b \times c$$

- (2) If the sum of edges length of a cube is 144 cm then it's volume equals
 - a) 1728 cm b) 1728 cm³
- c) 144 cm³
- d) 144 cm
- (3) At a moment, the length of the shade of a tree of height 3m was 180 cm, then same what is the length of the shade of another tree of height 2 m at the moment
- a) 60 cm
- b) 90 cm
- c) 120 cm
- d) 150cm
- (4) A painter has 25 liters of paints. He uses 2.5 liter of paint per hour. If he finished his work after 5.5 hours. Then how many liters of paint are remained?
 - a) 10.25 litres

b) 11.25 litres

c) 12.75 litres

d) 13.75 litres



(5) If the price of goods in clothes shop is 240 pounds. And its price during sale is 180 pounds then the discount percentage is......

a) 15%

c) 20 %

c) 25%

d) 30%

Q2 :

- c) If the drawing scale for a map is 1: 1000 and the length of a road equals 5km. what is the length of this road in the map?
- d) Three persons involved in a business. The first paid 60000 pounds, the second paid 80000 pounds & the third paid 90000 pounds at the end of the year the net profit was 20700 pounds calculate the share of each of them.

Q3:

- a) In the opposite figure ABCD isa parallelogram , find m (< ACD) :
- b) If the percentage of success for a school equals 85% and the number of the students in this school equal 800 students. If the ratio between the number of boys and the number of girls equals 2:3 find the number of succeeded girls in this school?



Q4:

A vessel in the shope of a cube whose edge length is 10.5 cm <u>first</u>: Calculate the volume of this vessel in cm³ <u>second</u>: How many mm³ of water is the capacity of this cube?

<u>Q5</u>:

The following table respresents the temperature degrees that expected for 30 cities.

a) Draw the frequency curve then answer the following:-

Temperature degree	24-	28-	32-	36-	40-	44-	Total
No. of cities	3	4	7	9	5	2	30

b) What is the number of cities whose temperature's are 40 degree and more ?







Alath



Model (4)

1-Complete:

- a) 5 Kg: 3000 gm =:
- b) 1.45 L + 0.5 dm^3 + 50 cm^3 = L
- c) If A:B = 2:3 , B:C= 6:7 then A:C = :
- d) A cuboid with a square base of side length 6 cm and height 10 cm then it's volume is
- e) $\frac{9}{20}$ = %

2- Choose the correct answer:

- a) $\frac{2}{3}$: $3\frac{1}{3}$ =
 - a-1:2
- b-2:5
- c-1:10
- d-1:5
- b) The diagonals are perpendicular in , ...

 - a- square , rectangle b- rhombus , rectangle
 - c- square , rhombus
- d-parallelogram, rectangle
- c) If $\frac{a}{b} = \frac{c}{d}$ so which of the following is true
 - $a-a\times c=b\times d$
- $b-a\times d=b\times c$
- $c-a \times b = c \times d$ $d-d \times c = b \times a$
- d) A plough for agricultural land ploughs 15 feddens in 10 hours then the rate of this plough = Feddans/h
 - $a \frac{2}{3}$
- $b-\frac{3}{2}$ $c-\frac{5}{2}$
- $d \frac{5}{3}$

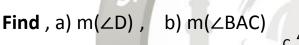


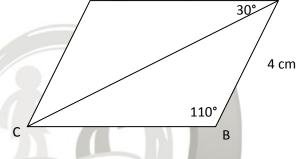
- e) A cube the sum of all edges 144 cm then its volume equal...
 - a- 1728 cm
- b-1728 cm^3
- $c-144 cm^3$
- d- 144 *cm*²
- 3- a) If the distance between two cities is 180 km with a drawing scale
 - 1:9000000, find the distance between them on the map
 - **b)** A car consumes 20 liters of benzene to cover 180 km , how many liters of benzene does the car consume to cover 540 km
 - 4- a) in the opposite figure ABCD is a parallelogram in which

$$m(\angle B) = 110^{\circ}$$

AB=4cm, AD=7cm

c) $m(\angle ACD)$





7 cm

- d) The perimeter of parallelogram
- **b)** A sum of money is distributed between two persons in the ratio 3 : 5 ,if the share of the second exceeds the share of first by L.E 30 ,Find the share of each one
- **5- a)** A company for electrical appliance displays the T.V set for 1062 pounds if the company sold with profit percentage is 14%, find the cost price for the T.V set





b) The following table shows the ages of visitors to an exhibition within an hour of the day

Visitor age	10-	20-	30-	40-	50-	Total
Number of visitors	6	9	12	10	8	45

- a) Draw the frequency curve for this distribution
- b) What is the number of visitors whose ages less than 40 years?









Model (5)

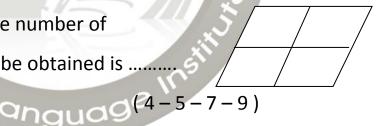
1- Complete:

- a) The ratio between the perimeter of the rhombus and its side length =:
- b) 18 Kirats: 2 feddans =:
- c) 1500 $cm^3 =$ Liters
- d) The range of the values 7, 15, 24, 11, 3 and 18 is
- e) The diagonals are equal in and and

2- Choose the correct answer:

a) If the ratio among the measurement of the angles is 1 : 2 : 3 then the measure for the smallest angle equal

- b) If a:b = 2:5 then $\frac{a}{a+b}$ = (2:5 2:7 3:7 7:2)
- c) In the opposite figure, The number of parallelograms which can be obtained is



d) The following data are descriptive except:

e) If the length in drawing is 2 cm ,and the real length is 6 cm .then the drawing length is : (1:3-1:30-1:300-1:300000)



<u>Math</u>



- **3- a)** A metallic cube of edge length 12 cm ,its wanted to melted and convert it into ingots in the shape of cuboids each of them has the dimensions 3 cm , 4 cm ,6 cm calculate the number of ingots that are obtained
 - **b)** Three merchants the profit of first 42% the profit of the second is 28% the profit of the third 36000 pounds what is the total profit in pounds?
- **4- a)** The ratio between the length and the width of rectangle is 7:4 ,If the perimeter of the rectangle is 44 cm .Find out the length and the width of the rectangle and then calculate the area
 - **b)** A tractor ploughs 6 feddans within 3 hours find the rate of work of this tractor, if another tractor ploughs 6 kirats in 10 minutes, which of them is better
- **5-a)** Three persons formed a company the share of first is $\frac{5}{3}$ the share of The second ,and the share of second $\frac{4}{3}$ the share of third ,If the share of first exceeds the share of the third by 8250 pounds find the share of each **b)** To help the poor people ,a group of students donated amounts of
 - **b)** To help the poor people, a group of students donated amounts of money in pounds shown in the following table.

Money in pounds	3-	5-	7-	5 9-	11-	Total
Number of students	1/40	na ¹⁰	a9 ¹⁵	10	8	50

- a) Draw the frequency curve for the distribution
- b) what is the number of students that donated 7 pounds or more?





Model (6)

Q1 : Choose the correct answer :

(1) If the Ratio amo	ong the measures of angles of a triangle is 2 : 3 : 4
then the measure o	of its angles in the same order are
a) 20 , 30 , 40	b) 20,60,80
c) 40 , 80 , 60	d) 40 , 60 , 80
(2) If Hazem drinks	21 glasses of milk weekly then the rate of what
the drinks daily is	رنع د المسلوق
a) 3 glasses	b) 7 glasses
c) 14 glasses	d) 20 glasses
(3) A metalic piece	in the shape of a cube of edge length 40cm it's
melted & converted	d to a cuboid whose base area = 2000 cm² then
it's height =	
a) 16 cm	b) 32 cm
c) 64 cm	d) 80cm
(4) On a map is dra	wn such that each 1 centimetre represents 5 km.
then if the distance	between two villages is $\frac{1}{2}$ km then the distance
between them on t	his map in centimeter equals
a) 0.1	b) 0.4
c) 25	d) 10





- (5) A merchant sold his goods with profit 15% then the percentage of the selling price to the buying price equals
 - a) 15 %

b) 85 %

c) 115 %

d) 150 %

Q2 :

A manufacture of clothes produces 8000 pieces daily, if the ratio between what this manufacture produce from the childrens clothes to the adults clothes 2: 3 Find the number of pieces for children's clothes produced in 3 days.

Q3:

- a) If $\frac{x-3}{6} = \frac{5}{3}$, find the value of x?
- b) If the feast festival, one of the shops mode a discount 15% for the price of a refrigerator which equal 1750 pounds. Find the price of the refrigerator after discount?

Q4:

If a quantity of sugar with volume 2700 cm³ need to can in a box, show which of the following boxes is suitable? and why?

- a) A cuboid with dimensions 45 cm, 40 cm & 15 cm.
- b) A cube the length of its inner dimension equals 30 cm.







<u>Q5</u> :

The following table shows the dates & the number of trips (in one of the bus stations for the governorates)

Dates	6 am	8 am	10 am	12 am	2 pm	Sum
Number of trips	30	41	40	16	13	140

Draw the frequency curve for this distribution, then answer the following What is the number of trips before 10 am?





<u>Math</u>

Model answer 1

a:c = 2

Q1 complete:

- a) right angle
- b) A:b:c
- 2:3:3
- 3 🚼 3 | : 5
- $6:9:15(\div 3)$ \longrightarrow a:c=
- 2: 3: 5
- c) $\pi : 1$
- d) $X + 12 = 4 \times 6 = 24$
- X = 24 12 = 12
 - e) D.L: R.L
- 2.5 cm : 1.6 m (1.6 m x 100 = 160 cm)
- 2.5 : 160 (x10)
- 25 : 1600 (÷25)
- 1:64
 - f) Height = $\frac{volume}{BA} = \frac{1000}{100} = 10 \text{ cm}$

Q2.choose:

- a) Square
- b) $\frac{4}{x} = \frac{12}{18}$

$$X = \frac{4 \times 18}{12} = 6$$

c) $E = \sqrt[3]{V} = \sqrt[3]{125} = 5 \text{ cm}$

B A = E X E =
$$5 \times 5 = 25 \text{ cm}^2$$

d) The rate = $14 \div 3.5 = 4$ feddan /hr

<u>Math</u>

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e) W= A
$$\div$$
 L = 24 \div 6 = 4cm

$$P. = (L + W) \times 2 = (4 + 6) \times 2 = 20 \text{ cm}$$

P : L

 $20:6 (\div 2)$

10: 3

Q3.a) T.v : oven : fridge

4 : 5 : 8

1200 : :

the price of oven = $\frac{5 \times 1200}{4}$ = 1500 pounds

the price of fridge = $\frac{8 \times 1200}{4}$ = 2400 pounds

Q3.b)

- a) Capacity = $20 \times 20 \times 20 = 8000 \text{ } cm^3 \div 1000 = 8 \text{ Litre}$
- b) The price of honey = $8 \times 8 = 64$ pounds

Q4.a)

$$X = \frac{3 \times 22}{6} = 11 \text{ m}$$

Q4.b) c.p = 45 000 +5 000 = 50

000 pounds

Height	22 m	Χ
shadow	6 m	3 m

c.p : profit : s.p

100 : 10 : 110

50 000 : X

 $s.p = \frac{110x \, 50 \, 000}{100} = 55000 \text{ pounds}$





Q5.a) volume of the metallic piece = $30 \times 30 \times 5 = 4500 \text{ cm}^3$

Q5.b)

a) $M(<ADC) = 180 - 70 = 110^0$

b) Perimeter = 7 + 6 + 3.8 + 3.8 = 20.6 cm

Q6.a)

D.L: R.L

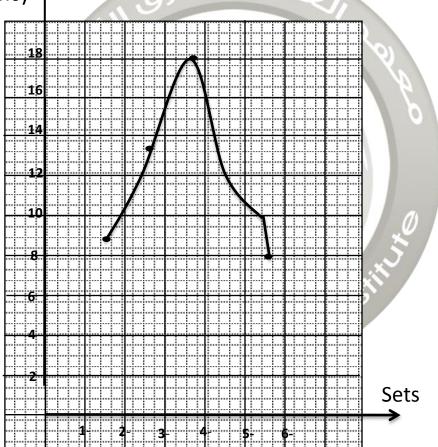
1 : 100 000

_ : 36

D.L = $\frac{36 \times 1}{100000}$ = 0.00036 km x 100 000 = 36 cm

Frequency 1





The percentage =
$$\frac{18}{60} \times 100 = 30\%$$





Model Answer (2)

(1)a)

Gm	100	30
calories	300	X ?

$$x = \frac{30 \times 300}{100} = 90 \text{ calories}$$

b)
$$E = \sqrt{FA} = \sqrt{4} = 2cm$$

$$V = E \times E \times E = 2 \times 2 \times 2 = 8cm^3$$

c)
$$11iter = \times 1000 = 1000 \text{ cm}^3$$

V. of liquid =
$$1000 \text{cm}^3$$

$$E = \sqrt[3]{V} = \sqrt[3]{1000} = 10cm$$

d)
$$\frac{1}{4}$$

e) 12 kirats :
$$1\frac{1}{2}$$
 feddons

12 kirats :
$$36 \text{ kirats}$$
 (÷ 12)

f) Range = max value - min value =
$$9 - 3 = 6$$



$$Q2:a) 2L = 2000 cm^3$$

Number of bottles =
$$\frac{2000}{40}$$
 = 50 *bottles*

b) The weight of the pure gold =
$$70 - 7 = 63$$
 gm

The percentage of the pure gold
$$=\frac{63}{70} \times 100 = 90 \%$$

Percentage of loss =
$$\frac{100 \times 13000}{65000} = 20\%$$

Q4: volume of cube =
$$36 \times 36 \times 36 = 46656 \text{ cm}^3$$

Volume of soapbar =
$$9 \times 9 \times 9 = 729 \ cm^3$$

Namber opf soapbars =
$$\frac{46656}{729}$$
 = 64 soap bars



Q5:

Sets	Center of the set	Frequency	Point
10 -	$\frac{10+20}{2} = 15$	3	(15,3)
20 –	$\frac{20+30}{2} = 25$	6	(25,6)
30-	$\frac{30+40}{2} = 35$	10	(35,10)
40-	$\frac{40+50}{2} = 45$	15	(45,15)
50-	$\frac{50+60}{2} = 55$	8	(55,8)
60-	$\frac{60+70}{2} = 65$	5	(65,5)
70-80	$\frac{70+80}{2} = 75$	3	(75,3)

Draw by yourself

Second: The no of workers = 10 + 15 = 25 workers

The percentage of workers =
$$\frac{25}{50} \times 100 = 50 \%$$



<u>Math</u>



Model Answer (3)

1)
$$a \times d = b \times c$$

2)
$$E = \frac{144}{12} = 12cm$$

$$V = 12 \times 12 \times 12 = 1728 \ cm^3$$

3) The shade =
$$\frac{180 \times 2}{3}$$
 = 120 *cm*

Height	3 m	2m
Shade	180 cm	×

4) after 5.5 hours he uses = $\frac{2.5 \times 5.5}{2}$ = 13.75 *liters*

The paint reamainded = 25 - 13.75 = 11.25 liters

Liter	2.5	* ?
Hours	11 ,5	5.5

5) Befor discount : u.c. after discount

60 : 180 L.E 240 L.E :





Q2: a) D.L = $\frac{1\times5}{1000} = \frac{1}{200} \times 100000 \ km = 500cm$. D.L : R.L

1 : 1000

? : 5km

b) 1^{st} : 2^{nd} : 3^{rd}

 $60000 : 80000 : 90000 (\div 10000)$

6 : 8 :

 $1^{st} : 2^{nd} : 3^{rd} : sum$

6 : 8 : 9 : 23

20700

• The share of $1^{st} = \frac{6 \times 20700}{23} = 5400 L.E$

• The share of $1^{\text{st}} = \frac{8 \times 20700}{23} = 7200 \ L. E$

• The share of $1^{\text{st}} = \frac{9 \times 20700}{23} = 8100 \text{ L. E}$

Q3:

a) $m (< D) = 100^{\circ}$

M (< ACD) = 180 - (100 + 35) = 45° Boys : girl : sum

b) Boys :

2 : 3 : 5

? : 800

The number of girls = $\frac{3 \times 800}{5}$ = 480 *girls*

The number of succeeded girls = $480 \times \frac{85}{100} = 408 \ girls$



Q4: First: V of the vessel = $E \times E \times E$ = $10.5 \times 10.5 \times 10.5$ = $1157.625 cm^3$

Second: $1157.625 \times 1000cm^3 = 1157625 mm^3$

Q5: b) The number of cities = 5 + 2 = 7 cities

Q5: a)

Sets	Center of the set	Frequency	Point
24 –	$\frac{24+28}{2} = 26$	263	(26,3)
28 –	$\frac{28+32}{2} = 30$	4	(30,4)
32-	$\frac{32+36}{2} = 34$	7 9	(34,7)
36-	$\frac{36+40}{2} = 38$	9	(38,9)
40-	$\frac{40+44}{2} = 42$	5	(42,5)
44-	$\frac{44+48}{2} = 46$	2// 6	(46,2)

Draw by yourself anguage Institution



Model answer 4

1.comple:

a) $5000:3000 \div 1000$ (5 kg x 1000 = 5000 gm)

5:3

b) 1.45 L + 0.5 dm^3 + 0.05 L = 2L (50 $cm^3 \div 1000 = 0.05 L$)

c)

- A : B : C
- 2:3:3
- 6:6:7
- 12:18:21 ÷3
- 4:6:7
- a:c=4:7
- d) volume of cuboid = L x W x h = $6 \times 6 \times 10 = 360 \text{ cm}^3$ L = W = $6 \times 6 \times 10 = 360 \text{ cm}^3$

Language

e)($\frac{9}{20}$ x 100)% = 45%

2.choose:

- a) $\frac{2}{3}$: $\frac{10}{3}$
 - 6:30
 - 1:5
- b) Square and rhombus

<u>Math</u>



- c) a x d = b x c
- d) The rate = $15 \div 10 = \frac{3}{2}$ feddan /hr

$$E = \frac{sum\ of\ edges}{12} = \frac{144}{12} = 12\ cm$$

$$V = E \times E \times E = 12 \times 12 \times 12 = 1728 \ cm^3$$

Q3.a. D.L : R.L

1 : 9 000 000

X:180

$$X = \frac{180 \times 1}{9000000} = \frac{1}{50000} \ km$$

$$\frac{1}{50\,000}$$
 km x 100 000 = 2 cm

<u>b)</u>

Liter	20	X	
Km.	180	540	

$$\frac{540 \times 20}{180} = 60 \text{ L}$$

Q4.a.

- a) m(<D) = 110^o (opposite angles)
- b) m(<BAC) = 180 (110 + 30) = 40° (consecutive angles)
- c) m(<ACD) = 180 (110 + 30) = 40^{o}
- d) The perimeter = $(L + W) \times 2 = (7 + 4) \times 2 = 22$ cm
- **b)** $P_1: P_2:$ difference

3:5:2

_ : _ : 30

$$P_1 = \frac{30 \times 3}{2} = 45 \text{ L.E}$$
 , $P_2 = \frac{30 \times 5}{2} = 75 \text{ L.E}$





Q5.a)

C.P : Profit : S.P

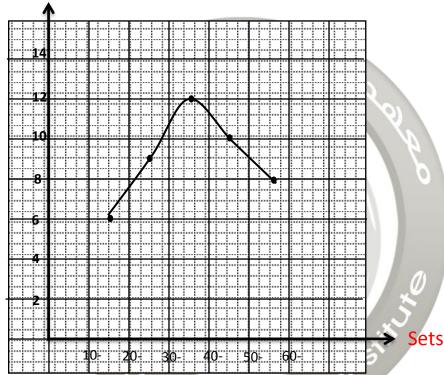
100%: 14% : 114%

_ : _ : 1026

C.P = $\frac{1026 \times 100}{114}$ = 900 pounds

Frequency





The number of visitors = 6+9+12=27 visitor

Model answer 5

Q1. Complete:

- a) 4:1
- b) 18 kirat : 48 kirat \div 3 (2feddan x 24 = 48 kirats)
 - 6 : 16 ÷2
 - 3 : 8
- c) $1500 cm^3 \div 1000 = 1.5 L$
- d) The greatest number = 24, the smallest number = 3Range = greatest – smallest = 24 - 3 = 21
- e) Squar rectangle

Q2.choose:

- a) $A_1 : A_2 : A_3 : Sum$
- 1 : 2 : 3 : 6
- : :- :180

$$A_1 = \frac{180 \times 1}{6} = 30^0$$
, $A_2 = \frac{180 \times 2}{6} = 60^0$

- $A_3 = \frac{180 \times 3}{6} = 90^{\circ}$, then the smallest angle is 30°
 - b) A: b = 2:5 then $\frac{2}{2+5}$ = 2:7
 - c) 9
 - d) Age
 - e) D.L: R.L
 - 2cm : 6m ($6m \times 100 = 600 cm$)
 - 2:600 ÷2
 - 1:300



Q3.a volume of cube = E x E x E = 12 x 12 x 12 = 1728 cm^3 Volume of ingots = $L \times W \times H = 3 \times 4 \times 6 = 72 \text{ } cm^3$ The number of ingots = $\frac{big\ volume}{small\ volume} = \frac{1728}{72} = 24$ ingots

Q3.b)
$$1^{st}: 2^{nd}: 3^{rd}: sum$$

The profit of the $3^{rd} = 100\% - (42\% + 28\%) = 30\%$

The total profit=
$$\frac{36000 \times 100}{30}$$
 = 120 000 pounds

$$L = \frac{44 \times 7}{22} = 14 \text{ m}$$
, $W = \frac{44 \times 4}{22} = 8 \text{ m}$, Area = L x W = 14 x 8 = 112 m^2

Q4.b) 6 feddan x 24 = 144 kirats , 3 hours x 60 = 180 min

First tractor = $144 \div 180 = 0.8$ kirats / min.

Second tractor = $6 \div 10 = 0.6$ kirats / min.

The first tractor is the better

Q5.a)
$$1^{st}: 2^{nd}: 3^{rd}$$
 : difference $5: 3 \rightarrow : 3$ $20: 12: 9: 11$

$$1^{st}: 2^{nd} < 3^{rd}$$
 : difference

$$1^{st} = \frac{20 \times 8250}{11} = 15000 \text{ pounds} \qquad 2^{nd} = \frac{12 \times 8250}{11} = 9000 \text{ pounds}$$

$$2^{nd} = \frac{12 \times 8250}{11} = 9000 \text{ pounds}$$

$$3^{rd} = \frac{9 \times 8250}{11} = 6750$$
 pounds

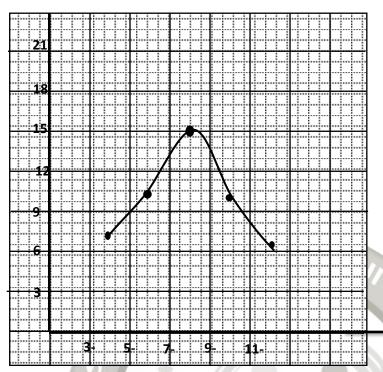






Frequency

Q5.b)



Number of students = 15 + 10 + 8 = 33 student

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Model Answer (6)

(1)
$$1^{st}$$
 angle: 2^{nd} angle: 3^{rd} angle: sum

$$1^{\text{st}}$$
 angle = $\frac{2 \times 180}{9} = 40^{\circ}$

$$2^{\text{nd}}$$
 angle = $\frac{3 \times 180}{9} = 60^{\circ}$

$$3^{\text{rd}}$$
 angle = $\frac{4 \times 180}{9}$ = 80°

The angles are :
$$40^{\circ}$$
 , 60° , 80°

2- The rate of what he drinks daily =
$$\frac{21 cups}{7 days}$$
 = 3 glasses / day

3- volume of cube =
$$40 \times 40 \times 40 = 64000 \ cm^3$$

H of cuboid =
$$\frac{V}{BA} = \frac{64000}{2000} = 32cm$$
.

$$4-5 \ km \times 100000 = 500000 \ cm$$

$$D.L = \frac{\frac{1}{2} \times 1}{500000} = \frac{1}{1000000} km$$

$$D.L : R.L$$

$$\frac{1}{1000000} \times 100000 = \frac{1}{10} cm = 0.1 cm$$
 1 : 500000

:
$$\frac{1}{2}$$
 km



5- C.P : profit : S.P

100% : 15% : 115%

Q2: children: adults: sum

2 : 3 : 5

? : ? : 8000

Pieces of children in one day = $\frac{2 \times 8000}{5}$ = 3200 *pices*

The factory produces in 3 day = $3200 \times 3 = 9600$ pieces.

Q3:a)
$$x - 3 = \frac{6 \times 5}{3} = 10$$

$$x = 10 + 3 = 13$$

b) befor discount: discound: after discount

100% : 15% : 85%

1750 L.E : ?

The price after discount = $\frac{1750 \times 85}{100}$ = 1487.5 *L. E*

Q4: v.of cuboid = $45 \times 40 \times 15 = 27000cm^2$

v. of cube = $30 \times 30 \times 30 = 27000 \ cm^3$

Both of the boxes are suitable.



Q5: B) The number of trips before 10 am = 30 + 41 = 71 trips.

Sets	Center of the	Frequency	Point	
	set			
6 am	$\frac{6+8}{2} = 7$	30	(7,30)	
8 am	$\frac{8+10}{2} = 9$	41 الـم	(9,41)	
10 am	$\frac{10+12}{2} = 11$	40	(11,40)	
12 am	$\frac{12+14}{2} = 13$	16	(13,16)	
2 pm	$\frac{14+16}{2} = 15$	13	(15,13)	

Draw by yourself

Janguage Institu

Good Luck

Mid-year



امتحان الصف السادس الإبتدائى — الفصل الدراسى الأول ٢٠١١ / ٢٠١ المادة : الرياضيات (إنجليزى)

تنبيه هام أسئلة المادة في صفحتين

[1] Complete:

يسمح باستخدام الآلة الحاسبة

- a) $1,1: \circ, \circ = \cdots$: \cdots
- b) $\frac{3}{7} = \frac{12}{y}$ then $\forall \times Y = \cdots \times \cdots$
- c) The diagonals are equal in length in each of · · · · and · · · ·
- d) If the values of a frequency distribution lie between (7 $^{\circ\circ}$) then the range of this distribution = \cdots

[Y] Choose the correct answer:

a) $\frac{x}{5} = 9\%$, then $X = \cdots$

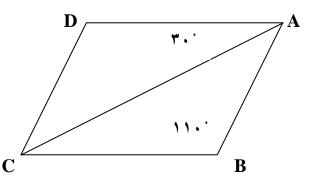
$$(\frac{1}{6}, \frac{1}{8}, \frac{1}{2}, \frac{1}{2})$$

b) $\$ litre $= \cdots$ milliliter.

c) In the opposite figure :

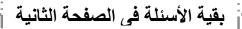
A B C D is a parallelogram,

$$m (\angle ACD) = \cdots$$



d) The opposite data are descriptive except · · · ·

(the favorite coloure, birth place, age or blood species)



(۲) تابع أسئلة امتحان الرياضيات (إنجليزى) للصف السادس الإبتدائى الفصل الدراسى الأول ۲۰۱۱/۲۰۱

- [Υ] a) Which is greater in volume and why? a cuboid whose dimensions are ξ , \circ , τ cm or a cube of edge length \circ cm.
 - b) Ahmed draw a picture to his brother Emad with a drawing scale ': ".

 if the real length of Emad is '^. cm, what is his length in the picture?
- [1] a) Mohab spends LE 7. within three days, what is the rate of what Mohab spends per a day?
 - b) The following table shows the age of visitors to an exhibition within an hour of the day .

Visitor's age	١٠-	۲۰_	٣٠_	٤٠_	0	Total
Number of visitors	7	٩	١٢	١.	٨	20

Draw the frequency curve for this distribution.

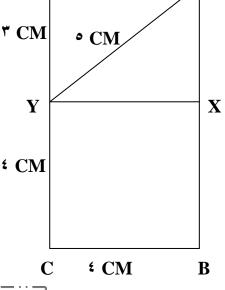
a) Discover the pattren and describe it, then complete by repeating (twice)

$$\begin{bmatrix} \triangle \end{bmatrix}$$
, $\begin{bmatrix} \triangle \end{bmatrix}$, $\begin{bmatrix} \triangle \end{bmatrix}$, ...,

- b) In the opposite figure, complete the following: **D** ⁴ **CM**

 - The figure (XBCY) represents · · · ·
 - The figure (ABCY) represents \cdots .

 And it's per meter = \cdots cm



انتهت الأسئلة مع أطيب الأمنيات بالنجاح

بسم الله الرحمن الرحيم

Assiut Governorate

Directorate of Education

The Primary Six examination, for the first Term 2011/2012 **Mathematics** Time: 1½ hour

امتحان الرياضيات باللغة الإنجليزية للصف السادس الابتدائي

الفصل الدراسي الأول ٢٠١١/٢٠١١م

الحاسبة	الآلة	باستخدام	يسمح
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لاحظ أن أسئلة هذا الامتحان في ورقتين

تنبيه هام: يسلم الطالب ورقة امتحانيه باللغة العربية مع الورقة المترحمة .

Answer the following questions:

[1] Choose the correct answer :-

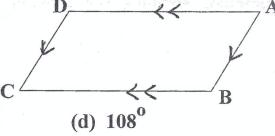
- if the numbers 2, x, 10, 15 were in proportionate then the (1) value of $x = \dots$
 - (a) 30
- (b) 6
- (d) 15
- $(2) \ \frac{2}{5} \ : \ \frac{7}{2} = \dots : \dots$
 - (a) 7:5
- (b) 5:7 (c) 35:4
- (d) 4:35

(3) in the opposite figure

ABCD is a parallelogram then

$$M(A) + M(B) = \dots$$

- (a) 90°
- (b) 180° (c) 360°



- (4) The volume of a cube equals 64 cm³ then it's base area equals =
 - (a) 16 cm^2 (b) 16 cm (c) 4 cm^2
- (d) 4 cm

[2] Complete:-

(1) if
$$\frac{X+4}{6} = 3$$
, $X = \dots$

(2)
$$\frac{7}{20} = \dots \%$$

(3) if
$$a:b=3:5$$
, $b:c=1:4$ then $a:b:c=....:...$

(4) if the marks of 6 pupils in one of the tests are 29, 32, 57, 40, 36 , 49 then the range for these marks is equal to =

بقية الأسئلة في الورقة الثانية

تابع امتحان الرياضيات باللغة الإنجليزية للصف السادس الابتدائي الفصل الدراسي الأول ٢٠١١/٢٠١١م

- [3] (A) if the ratio among the heights of three buildings 3:4:5 and if the height of the first building is 12 metres calculate the heights of the second and the third building.
 - (B) if the drawing scale which is registered on a map of some inhabitant's cities is 1:700000 and if the distance between two cities on this map is 5 cm- find the real distance between them.
- [4] (A) Find the selling price of goods sold for 32400 pounds, with profit percentage 8 %.
 - (B) A metallic cube of edge length 8 cm it is wanted to be melted and convert it into ingots in the shape of cuboids each of them has the dimensions 4, 2, and 1 cm. calculate the number of ingots that are obtained.

[5](A) A cube shaped vessel, its internal edge length is 30 cm, it is filled with food oil. Calculate its capacity in litres.

(B) The following table shows the age of visitors to on exhibition

with in an hour of the day.

Visitor's age	10 -	20 -	30 -	40 -	50 -	sum
Number of visitors	6	9	12	10	8	45
		20 11 50				

Draw the frequency curve for this distribution.

بالتوفيق والنجاح ...

انتمت الأسئلة ،،

CAIRO GOVERNORATE CAIRO EDUCATIONAL ZONE SIXTH GRADE PRIMARY EXAMINATION THE FIRAST TERM 2011 - 2012

MATHEMATICS امتحان الصف السادس الابتدائي الفصل الأول ٢٠١١ _ ٢٠١٢ (يسمح باستعمال الآلة الحاسبة) Answer the following questions:- (calculator is allowed) Question (1) Complete each of the following statements: The ratio between 250 piasters and $7\frac{1}{2}$ pounds equals a The four sides are equal in length in each of, b The listed price of a T.V set is 1200 pounds. If the discount is 10 % of its original price, then its price after discount is Pounds. If the values of frequency distribution lie between 5 and 35, then the d range of this distribution equals Question (2) Choose the correct answer: The ratio between the side length of a rhombus and its perimeter a [1:3,1:4,3:1,4:1] is If $\frac{x+8}{6} = 2$, then x =[2,4,6,12] The volume of a cube whose edge length 5 cm equals cm³ C [25, 100, 125, 150] The following data are descriptive except [colour of school uniform suit, preferable hoppy, age, blood species] بقية الأسئلة في الصفحة المقابلة

Question (3):

- Hany, Mona, and Hend participated in a commerce. Hany paid 1500 pounds, Mona paid 2000 pounds, and Hend paid 2500 pounds. At the end of the year, the profit of the company was 1200 pounds. Find the share of each of them from the profit.
- **b**) A car consumes 20 litres of Benzin to cover 180 km. How many litres of Benzin does the car consume to cover 540 km?

Question (4):

- a) If the drawing scale which is registered on a map of some in

 Habitant's cities is 1:500 000 and the distance between two cities

 on this map is 3 cm, the find the real distance between them.
- b) The volume of a cuboid is 400 cm³, its length is 10 cm and its height is 8 cm. Find the area of its base and its width.

Question (5):

- a) The sum of lengths of all edges of a cube is 48 cm. calculate its volume.
- **b**) The following table shows the marks of 100 students in a month in Mathematics.

Marks	10 -	20 -	30 -	40 -	50 -	Total
Number of students	10	15	25	35	15	100

What is the number of students who got 40 marks and more?

(انتهت الأسئلة مع دعواتنا لكم بالنجاح)

الزمين

محافظة المنوفية – مديرية التربية والتعليم

لدارس اللغات

Answer the following question:

Calculators are permitted

(1): Choose the correct answer from the given ones:

(a) •
$$m^{r} = \dots$$

$$(\ \, \cdots \ \, d\ m^{^{\boldsymbol{\gamma}}} \quad \underline{or} \quad \cdots \ \, d\ m^{^{\boldsymbol{\gamma}}} \quad \underline{or} \quad \cdots \ \, d\ m^{^{\boldsymbol{\gamma}}} \quad \underline{or} \quad \cdots \ \, d\ m\)$$

(b)
$$\sqrt{\frac{1}{\xi}} = \dots \sqrt{6}$$

$$()$$
 or $)$

(140
$$\underline{or}$$
 10. \underline{or} 14.)

(c) If a : b = 7 : 7 and c : b = 0 : 7 then $a : c = \dots : \dots$

(d) In the opposite figure:

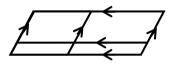
The number of parallelograms =



or

or

٧) or

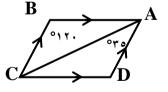


(Y): Complete each of the following:

- (a) The two diagonals are perpendicular in,
- (b) The proportional is







- (d) If the marks of 7 pupils in one of the tests are 19, 77, 77, 79, 57, 79 then the range for these marks =
- (r): (A) A man distributed r pounds between his three sons. If the share of the first was third of the money and the ratio between the share of the second and the third is equals ":Calculate the share of each of them.

(B) A computer colour printer prints \ \ \ \ \ \ paper each \ \ \ minutes.

Find the rate of work of this printer.

Find the time with hours which is needed to prints • · · paper .

تسابع امتحان النقل من الصف السادس الابتدائي - نصف العام ٢٠١٢

المادة : الرياضيات مترجم (لمدارس اللغات)

 $(\mathfrak{t}):(A)$ A photo was taken for one of the very delicate insects by enlargement ratio $\cdot\cdot$:

 \lor if the actual length of the insect length is \lor , \lor m m .

Find the length of the insect in the picture (approximated to the nearest cm)

(B) The total area of a cube = $\circ \xi$ c m^{γ}

Calculate its volume.

 (\circ) : (A) A vessel in the shape of a cuboid with internal dimensions (\circ) , (\circ) and (\circ) and (\circ) are filed with honey.

Calculate the capacity of the pot of honey.

If the price for the honey is o pounds per liter. Calculate the price of all honey

(B) On the orphan day a group of students of it class donated amounts of money in pounds shown in the following table :

Money in pounds	٣ -	٥ ـ	٧ -	۹ -	11-	sum
Number of students	٧	١.	10	١.	٨	٥,

- (1) What is the number of student who demoted by \(\text{pounds} \) pounds and more. What you advise to do ?
- (Y) Draw the frequency for this distribution.

محافظة بني سويف مديرية التربية والتعليم إمتحان الفصل الدراسي الأول ٢٠١٢/٢٠١١ للصف السادس الابتدائي (عام) مادة: الدياضيات المترجم المترجم الذمن: ساعة ونصف

Answer the following questions:

1-Choose the correct answer from these between brackets :-

- (a) The ratio between $^{\circ}$ cm: $^{\circ}$ metres = ...:

 (): $^{\circ}$ or $^{\circ}$: $^{\circ}$ or $^{\circ}$: $^{\circ}$ or $^{\circ}$: $^{\circ}$
- (b) If the numbers \(\cdot \, \x \, \\ \cdot \, \\ \cdot \) were in proportional then the value of \(x = \ldot \ldot \).
 (\(\ldot \, \quad \quad \) \(\quad \quad \quad \) \(\quad \qua
- (c) The opposite data are quantitave except(the weights or the birth place or the tallness or the age)
- (d) A cuboid of dimensions r , $^{\xi}$ and $^{\circ}$ cm then its value = cm r (r or r or $^{\circ}$ or 7)

باقى الأسئلة بالصفحة الثانية

()

Y- Complete the following:-

- (a) The two diagonals are equal in length in each of
 and
- (b) If the values of frequency distribution lie between $(\ref{requency})$ then the range of this distribution =
- (c) A cube which the area of its base = r cm r then its volume = cm r

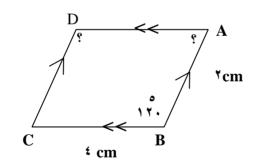
باقى الأسئلة بالصفحة الثالثة

- - (B) Two persons participated in a commercial the first paid L.E V··· and the second paid L.E V··· at the end of the year the profit was L.E T···.

Calculate the share of each of them from profit.

 ξ -(A) In the opposite figure

A B C D is a parallelogram
in which m (∠ B) = \forall \cdot \c



With out using Geometrical instruments . Find

$$\Upsilon$$
- m (\angle A)

- ۳- Complete A D //
- ٤- The perimeter of the parallelogram

$$ABCD = \dots cm$$

- (b) A class contains 'pupils," pupils are present in a a day. Calculate the percentage of the absentees.
- °- (A) A cube shaped vessel its internal edge length is $\Upsilon \cdot$ cm it is filled with food oil
 - \'- Calculate the capacity of the vessel.
 - Y- If the price of one litre of food oil is L.E 4,0

Calculate the price of all oil

(b) The following table shows the degrees of ' · · · pupils in one month in math .

Marks	۲۰ -	٣٠ _	٤٠_	٥	Sum
Number of pupils	10	٣.	٤.	10	١

- \(\frac{1}{2}\)- What is the number of pupils who record less than \(\frac{1}{2}\)- degrees?
- Y- Draw the frequency curve for this distribution.

انتهت الأسئلة

محافظة كفر الشيخ

مديرية التربية والتعليم

امتحان الفصل الدراسي الأول للصف السادس الابتدائي ٢٠١١ / ٢٠١٢م

الزمن: ساعة ونصف

المادة: الرياضيات باللغة الإنجليزية (لمدارس اللغات فقط)

Answer all the following questions:

يسمح باستخدام الألة الحاسبة

Choose the correct answer:

()

a) If
$$\frac{2}{7} = \frac{x}{21}$$
 then $x = \dots$

- c) A cube, the perimeter of its base is $^{\mbox{\scriptsize T}}$ cm, then its volume = cm . ($^{\mbox{\scriptsize T}}$, $^{\mbox{\scriptsize T}}$, $^{\mbox{\scriptsize T}}$)
- d) The opposite data are "quantitive" except:

(age - blood species - weight - tallness)

(Y | Complete the following:

) a) ξ, Λ litre = cm

- b) •, \ \ \ o = %
- c) If the values of a frequency distribution lie between ($^{\circ}$, $^{\circ}$) then; The range of this distribution =
- d) The two diagonals are perpendicular in each of and
- a) If the ratio among the share of Hani and the share of Sherif and the share of Khalid is

 ": •: V and if the share of Hani is LE Y 2. Calculate the share of each of Sherif and Khalid.
 - b) A company for selling the electric sets, It shows T.V for LE Y \ \ \ , If the percentage of the profit is \ \ Y \ \ , Find the buying price of T.V.
- (ξ
 a) A picture was take to an artificial scene with a drawing scale 1: 1. if the real length of
 a tree is A meter, Find its length in the picture.
- a) The opposite figure shows a parallelogram in which $m(\angle B) = \%$, $m(\angle D) = \%$, $m(\angle D)$, $m(\angle D)$, $m(\angle D)$, $m(\angle D)$.
 - b) The following table shows the extra money which

O		•	_			
The extra money	۲۰-	٣٠_	٤٠_	0	٦٠_	Total
Number of worker	۲.	10	٣.	70	١.	١

- \frac{1}{2} What are the number of workers who obtained extra money less than \frac{1}{2} \cdot \text{pounds}.
- Y- Draw the frequency curve of this distribution.

المادة : رياضيات بالانجليزية الزمن : ساعة و نصف

امتحان ﴿ نصف العام ﴾ للصف السادس الابتدائي (العام) للعام الدراسي (١٤٣٣ هـ - ٢٠١٢م)

جمهورية مصـر العربيـة محـافظة الإسكندرية مديرية التربية والتعليم

Answer the following questions

1) Complete the following:

- a) **8.7** Litre = milliliter.
- c) The two diagonals are equal in length in each of and and

Y) Choose the correct answer:

a) If
$$\frac{x}{300} = 4\%$$
 then, $x = \dots$ (17 or YV or A1 or 1A)

- b) The opposite data are quantative except (age or Tallness or colour or weight)

- Υ) a) A cube shaped vessel, its internal edge length is Υ cm. It is filled with food oil,
 - 1) Calculate the capacity of the vessel in litres.
 - Y) If the price of one litre of food oil is 4 pounds, Calculate the price of all oil.
 - b) Find the buying price of good sold for L.E. YTAA and the percentage of profit is 17%, and find the profit.
- **\(\xi\)** (a) A factory produce **\(\cdot\)...** bottles of soft drink in \(\cdot\) hours, What is the rate of production per hour?
 - b) The opposite figure:

XYZL is a Parallelogram in which
$$m(\angle Y) = 118^{\circ}$$
, $m(\angle YXZ) = 35^{\circ}$ and $ZY = A \text{ cm}$,

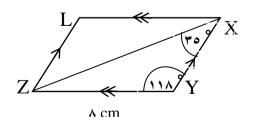
Find without using measuring tools:

$$m(\angle L)$$

$$\gamma$$
) m₍ \angle LXZ₎

$$m$$
 ($\angle LZY$)

$$\xi$$
) Length of \overline{XL}



- o) a) Ahmed draw a picture to his brother Osama with a drawing scale 1: $\xi \cdot$. If the real length of Osama is 17. cm, What is his length in the picture?
 - b) The following table shows the marks of 1.. students in one month in math;

Mark	Y • -	۳۰ -	٤٠-	0 * -	Sum
Number of students	10	٣٠	٤٠	10	1 * *

-) What is the number of students who record less than **\(\cdot \)** marks.
- Y) Draw the frequency curve for this distribution.

﴿ انتهت الأسئلة ﴾

المادة: رياضيات بالانجليزية نموذج الإجابة و توزيع الدرجات

امتحان ﴿ نصف العام ﴾ للصف السادس الأبتدائي (العام) للعام الدراسي (١٤٣٣ هـ - ٢٠١٢م)

الدرجة الكلية (٤٠ درجة) (وتراعى الحلول الأخرى)

(\ \) (\ \ marks): (\ \ marks for each item)

- a) { 7 · ·
- b) 7
- c) square and rectangle
- d) ٣9

(Y) (A marks): (Y marks for each item)

- a) YV
- b) colour
- c) **°

d) 1.

(**T**) (**A** marks):

a)(**&** marks):

The capacity = $\frac{30 \times 30 \times 30}{1000}$

litres

The price of the oil $= YV \times \P$

YEY pounds

b)(**t** marks):

Buying price 1 . .

Profit 11

Selling price

111

4477

The buying price = $\frac{2688 \times 100}{112}$

Y : . . pounds

The profit

 $= Y T \Lambda \Lambda - Y \xi \cdot \cdot$

= YAA pounds

\(\) (\(\) marks):

a)(**&** marks)

The production rate per hour = $\frac{9000}{12}$ \bigcirc = **V** • bottles / hour \bigcirc

b)(**&** marks)

 Υ) $m(\angle LZY) = \Upsilon \Upsilon^{\circ}$ (1) XL = A cm

<u>o) (A marks):</u>

a)(**t** marks):

The length in drawing The drawing scale = The length in reality

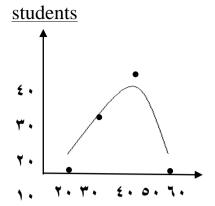
$$\frac{1}{40} = \frac{x}{160}$$

The length in the drawing = $\frac{160 \times 1}{40}$



b)(**&** marks):

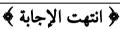
n The number of students whose marks are less than ξ marks $= 10 + 70 = \xi 0 \text{ students}$



Y) Draw the horizontal axis

and the vertical axis : and each point





(بقية الأسئلة في الصفحة المقابلة

Three persons involved in a business, the first paid LE 60000,

the second paid LE 80000 and the third paid LE 90000. At the end of the

year the profit was LE 20700.

Find the share of each person in profit.

uestion (4):

A man bought a flat for LE 100000, after three years he sold it for LE 130000

Find the percentage of his profit.

In the opposite figure:

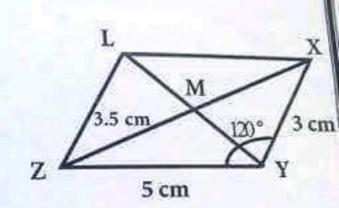
XYZL is a parallelogram in which

$$m(\angle XYZ) = 120^{\circ}, XY = 3 \text{ cm},$$

$$YZ = 5$$
 cm and $ZM = 3.5$ cm Find:

(1) m(∠ XLZ)

(2) Perimeter of the triangle XLZ



Question (5):

a

b

A container contains 12 litres of Honey. It is wanted to pour it in small bottles the capacity of each of them is 400 cm3. Calculate the number of bottles which are needed for that.

The following table shows the marks of 100 pupils in Mathematics in a month.

The marks	20-	30-	40-	50-60	Total
Number of pupils	10	30	40	20	100

Draw the frequency polygon for this distribution.

(انتهت الأسئلة مع خالص الدعاء بالنجاح والتوفيق)

Cairo Governorate Cairo Educational Directorate MATHEMATICS Time: SIXTH GRADE PRIMARY EXAMINATION 1 % HOURS Exam First term 2015 - 2016 Fifther is dell melant down استحان الصقد الصاوس (لايتدائس وجانور البرجان رسافة ويفيقه السافة (Calculator is allowed) الوجانسيات بالإنظيزية Answer the following questions:-والسجيع بالمتعلقال الأفة المعاملة Question (1): Complete the following: $0.4:0.8=\dots$: in the simplest form, The range of the set of these values 20, 95, 70 and 45 equals.... If the quantities x , 6 ,20 and 30 are in proportion, then x = ...In the opposite figure: ABCD is a rhombus in which $m(\angle A) = 118^{\circ}$. then $m(z|B) = \dots$ Question (2) Choose the correct answer from those given: The cuboid has ..., edges 112, 8, 6, 41

The given data are quantitive EXCEPT the

[weight, length, nationality, age]

1.2 litres + 800 cm³ = ... litres [2, 9.2, 200, 2000]

If 100 grams of chocolate give 300 calories. What is the number of calories which are found in 30 grams of the same chocolate?

190, 100, 900, 90001

Question [3]:

if the length of Sues Canal in a map of drawing scale 1: 1100000 is 15 cm, then find its real length in kilometers.

ا هذا الاستدور المدودة للقابلة /

Three persons involved in a business, the first paid LE 60000 , the second paid LE 80000 and the third paid LE 90000 . At the end of the year the profit was LE 20700.

Find the share of each person in profit.

Question (4):

- A man bought a flat for LE 100000, after three years he sold it for LE 130000 Find the percentage of his profit,
- In the opposite figure:

XYZL is a parallelogram in which

$$YZ = 5$$
 cm and $ZM = 3.5$ cm Find:



(2) Perimeter of the triangle XLZ

5 cm

Question (5):

- A container contains 12 litres of Honey. It is wanted to pour it in small bottles the capacity of each of them is 400 cm2. Calculate the number of buttles which are needed for that,
- The following table shows the marks of 100 pupils in Mathematics in a month.

The marks	20-	30-	40-	50-60	Total
Number of pupils	10	30	40	20	100

Draw the frequency polygon for this distribution.

التبت الأعناة مع خالص الدعاء بالنجاح والتوقيق)